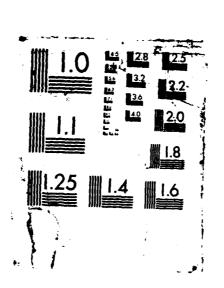
SURFACE PRESSURE MEASUREMENTS ON A HIGHLY SMEPT DELTA HIMMED HIMD TUMMEL. (U) NAVAL SURFACE MEAPONS CENTER SILVER SPRING HD A S COLLIER ET AL. AUG 86 NSMC/MP-86-336 F/G 1/1 AD-A190 972 1/3 UNCLASSIFIED NL 4 1



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FOREWORD

The surface pressures of a highly swept delta winged model were measured at Mach numbers of 2, 3, and 4 in the Naval Surface Weapons Center Supersonic Tunnel No. 2 (NSWC T-2) using a commercial pressure measurement system. The tests were performed in May 1985.

Surface pressure measurements are reported for 75 percent of the body length and the entire span of the wing for 0, 5, 10, and 15 degrees angle of attack and all roll angles from 0 to 360 degrees in 22.5-degree increments.

This work was sponsored by Mr. D. Hutchins of the Naval Air Systems Command (NAVAIR, AIR 320K) and Mr. L. Pasiuk of the Naval Sea Systems Command (NAVSEA R41 62). This document describes in detail the model design, the test apparatus, and the experimental techniques used for this test program. The authors wish to acknowledge Mr. G. D. Prats for suggestions on the use of the PSI system, Mr. D. W. Ausherman for feedback on past test programs, and Messrs. S. Cothran, Jr., and R. J. Marshall for their assistance in conducting the tests.

Approved by:

C. A. FISHER, Head

Weapon Dynamics Division

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INTRODUCTION

In light of new missile system requirements, numerical methods for predicting aerodynamic performance have assumed an increased importance. Stringent requirements on missile radar cross section and range mandate the development of the capability to accurately predict the aerodynamics of unconventionally shaped missiles with blended inlets.

Traditional methods for predicting these aerodynamic characteristics are semi-empirical in nature and rely on an extensive data base for similar classes of missile shapes. Hence these predictive methods are often not applicable to new geometries of interest. Also, there is likely to be an increase in the use of ramjet propulsion which requires the ability to predict the inlet flow field. Such quantities cannot be determined by simple, semi-empirical prediction methods.

Numerical methods for calculating the aerodynamics of missiles are currently being developed. However, such methods need detailed experimental data for validation. Existing data generally is restricted to forces and moments with limited examples of surface pressure measurements. The typical missile configurations. The data generated by these

tests will be used to increase the level of understanding of the aerodynamic behavior of high lift-to-drag (L/D) vehicles at angles of attack in supersonic flows. In particular, it will be utilized to validate computational codes which are being developed to predict the flow field characteristics of such vehicles.

TEST FACILITY

The NSWC Supersonic Tunnel #2 (T-2) is a 16 x 16 inch cross section horizontal tunnel with an open jet test section and a model support system that has pitch, yaw and roll capability. The tunnel working medium is high pressure air which can be heated, via a steam heater, to temperatures from 175 to 225 degrees Fahrenheit. The tunnel is equipped with schlieren quality glass ports that permit a 16 x 24 inch viewing area. T-2 is capable of operating over a Mach number range from Mach 0.3 to Mach 5 with a supply pressure ranging from 0.5 to 15 atmospheres. This Mach range is provided by interchanging two-dimensional nozzles.

T-2 is capable of either blow-down or recirculating operation. For this test series, the tunnel was operated in a recirculating mode at Mach numbers of 2.02, 3.02 and 4.00 with nominal Reynolds numbers of 3.7 x 10^6 /ft, 2.3 x 10^6 /ft and 1.5 x 10^6 /ft, respectively (p₀=1 atm).

MODEL DESCRIPTION

The basic model used for this test program consisted of a three caliber tangent ogive nose affixed to a two inch o.d., seven caliber cylindrical afterbody. It was designed as a split slotted body which could be used with any one of five wing configurations, shown in Figure 1. Also, a wing support allows for wing-alone testing.

The specific configuration tested is shown in Figure 2. The long delta wing is beveled so that a thin wing can be assumed in future calculations. The wing is positioned so that the leading edge starts at the aft part of the nose (six inches from the model nosetip). The total model wing span is six inches and the cross sectional thickness is 0.250 inches. The leading edge sweep angle is 77.5 degrees, the wing bevel angle is 75 degrees (as shown) and the root chord length is 9.02 inches. This wing contains 60 pressure taps, 58 of which are located on one half of the flat surface (see Figure 3). The body contains 91 pressure taps, 89 of which are clustered into one quarter of the body surface area. The two remaining taps in both the wing and the body yield flow symmetry data.

INSTRUMENTATION

Pressure measurements were made using a commercial system from Pressure Systems Incorporated (PSI). The PSI system consists of ten modules, each containing 16 pressure transducers. Each module is scanned electronically to acquire

its sixteen transducer output signals. The analog output signals are then transferred to the data acquisition and control unit (DACU), digitized and the results stored in the DACU RAM to be dumped to magnetic tape and reduced at a later time. Each pressure transducer was calibrated using a Stokes McLeod pressure gauge and a Barocel 1000 mm differential transducer. The accuracy of each PSI transducer was found to be within the specified accuracy; 0.25% of its full range (0.013 psi for 5 psi modules, 0.025 psi for 10 psi modules).

Tunnel conditions and model positions were recorded with a PSI random access mini millivolt (RAMM) analog-to-digital (A/D) converter. This A/D converter had an accuracy of 1.25 millivolts for a full-scale range of 500 millivolts.

TEST PROCEDURES

In preparation for a day of testing, the PSI system was brought on - line and an automatic pressure calibration sequence was initiated. The primary purpose of performing this simple three point calibration was to make available the ability to monitor the output of any one pressure transducer without collecting data. The transducers were then put through an eight point calibration to insure that the low pressure response characteristics of each transducer were defined. The calibration pressures ranged from 1 - 80 torr.

The RAMM-30 signals were also calibrated on a daily basis. A four point angle of attack calibration was made with alpha varying between 0 and 15 degrees. The roll angle calibration was made with five points from 0 to 360 degrees. The supply pressure was calibrated between 0 and 15 psi and the supply temperature was calibrated between 32 and 200 degrees Fahrenheit.

The model was positioned at 0 degree angle of attack before the tunnel was started. After the desired tunnel supply conditions were reached, data acquisition began. The model was first rolled to a position and then pitched through its series of angle of attack. A nominal 60 second delay for pressure equilibration was used between pitching and data acquisition for Mach 2 and 3. A 120 second delay was used at Mach 4. The model was always returned to 0 degree angle of attack prior to rolling to the next position. A list of run positions is given in Table 1.

DATA REDUCTION

The surface pressure measurements, the angle of attack, the roll angle, and the supply pressures and temperatures reported are averaged values of 50 data samples. The data rate at which these samples were collected is about 50 Hz. Each set of data was obtained in raw data counts and reduced using the calibration coefficients of the day. It was found that the transducer characteristics were best described by two straight lines, one for the lower pressures (1.1 - 5.0 torr) and one for the higher pressures (10.0 - 80.0 torr). In

the reduction of this pressure data, the point at which the two curves intersect was used as the criteria for determining which calibration curve would be used. The other data was reduced using standard reduction schemes.

RESULTS

Surface pressure data is presented in the appendix for each model run position (see Tables 2-9 for sample output). Each data set has been separated into two parts; body surface pressures and wing surface pressures. In the output, the pressure measured by each body pressure tap is given as $p(z/d,\theta)$, where z/d is the axial distance from the nosetip to the pressure tap and θ is the angular ray on which the pressure tap is located (see Figure 2). The pressure measured by each wing tap is given as p(z/d,r/d) where z/d is the dimensionless axial distance from the nosetip to the pressure tap and r/d is the dimensionless distance from the model centerline to the pressure tap.

The model has four sets of symmetric pressure taps, two sets on the body and two on the wing. The values of each symmetric set are presented as two pressures separated by a comma (,). One should also note that the first, second and fourth axial positions of the wing matrix contain r/d coordinates which are not common to the remaining matrix. These tap locations are denoted with an asterisk(*), a plus

sign (+) and an exclamation point(!). The actual coordinates
of these points are;

 $\star \Rightarrow r/d = 0.5465$

 $+ \Rightarrow r/d = 0.5745$

! = r/d = 0.6850

In order to qualitatively illustrate the surface pressure data of the highly swept delta winged model, a commercial contour plotting routine based on a linear interpolation scheme was used. Sample results are given in Figures 4 - 7.

Schlieren photographs of selected runs are presented in Figures 8 and 9.

CONCLUSIONS

The surface pressures of a highly swept delta winged model were measured at Mach 2, 3 and 4 in the Naval Surface Weapons Center Supersonic Tunnel No. 2 (NSWC T-2) for a variety of model positions using a commercial pressure measurement system. The results of the test are listed in the appendix of this report.

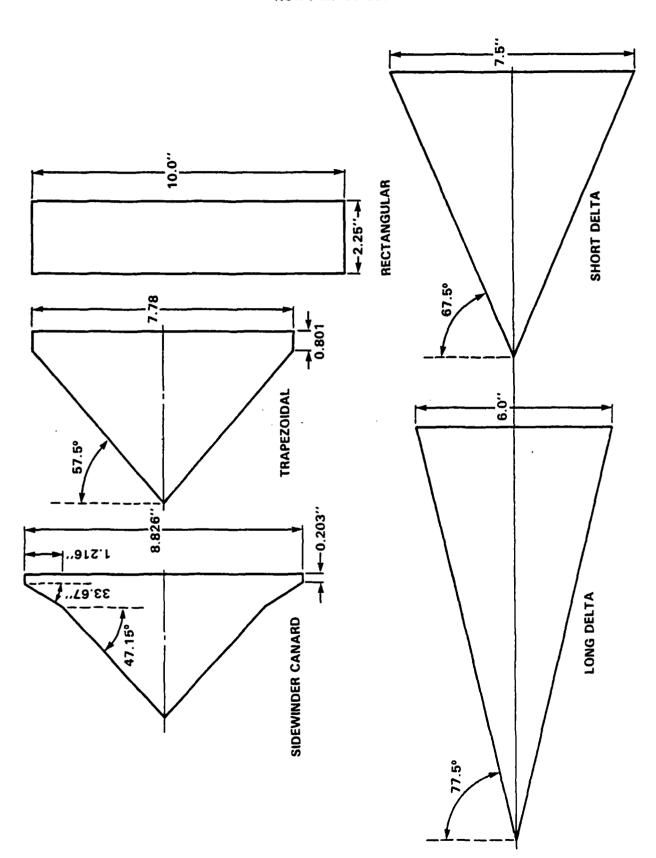
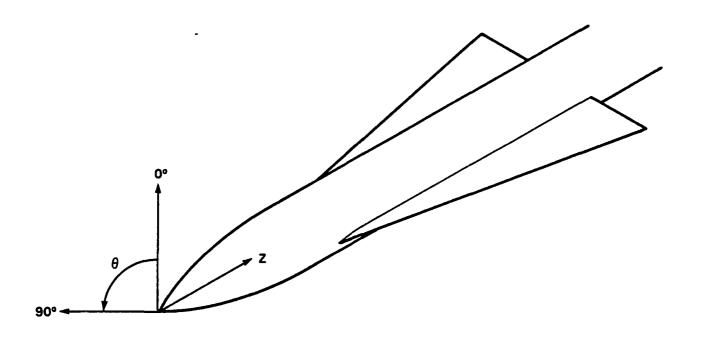


FIGURE 1. DIAGRAM OF WING CONFIGURATIONS



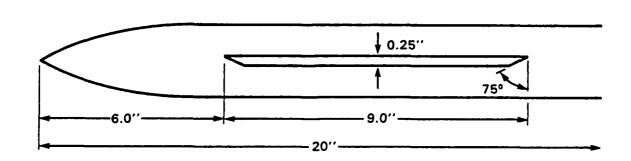


FIGURE 2. DIAGRAM OF HIGHLY SWEPT DELTA WINGED MODEL

60 WING PRESSURE TAPS 91 BODY PRESSURE TAPS

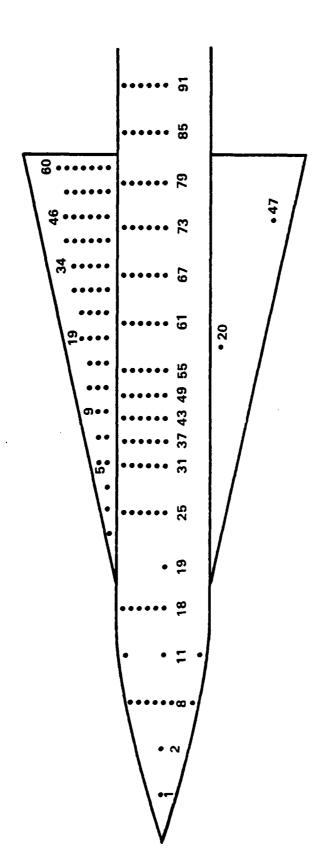
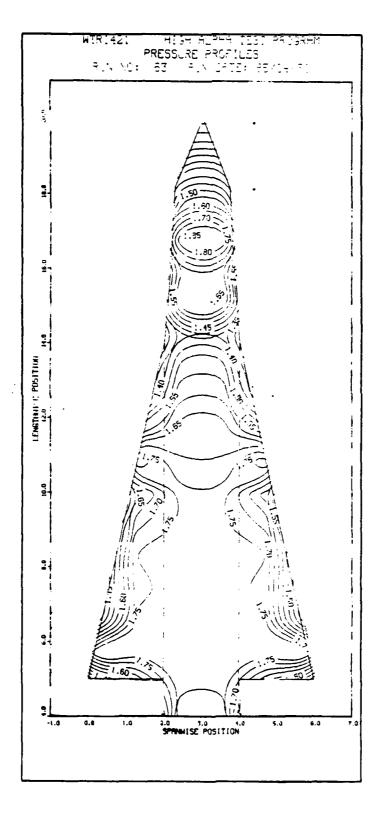


FIGURE 3. LOCATION OF PRESSURE TAPS



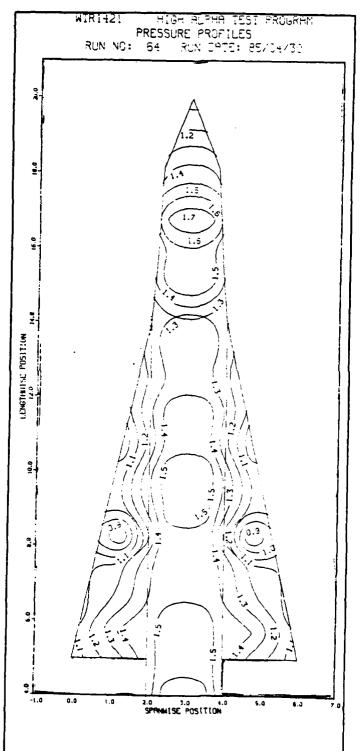
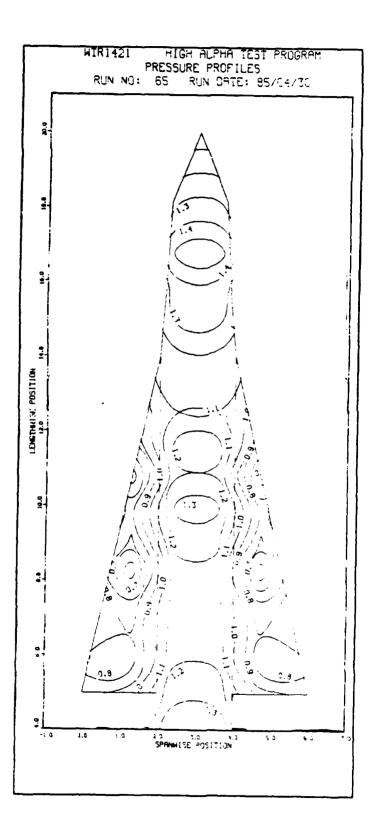
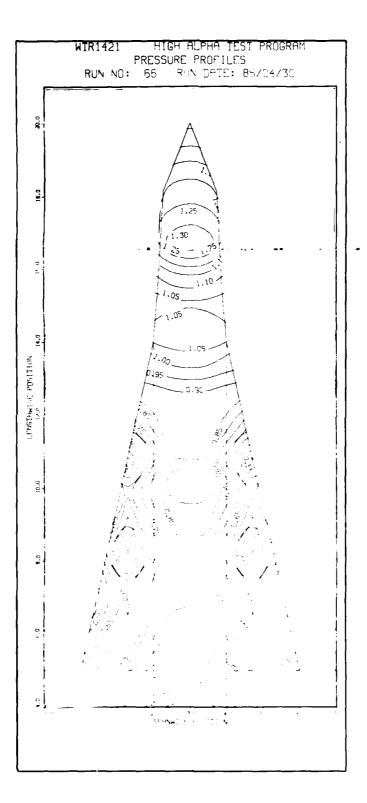


FIGURE 5. SURFACE PRESSURE CONTOUR OF MODEL; $M=2.0,\, \varphi=90^{\circ},\, \alpha=5^{\circ}$



 $= 2.0, \Phi = 90^{\circ}, \alpha$ Σ SURFACE PRESSURE CONTOUR OF MODEL; FIGURE 6.

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FIGURE 7. SURFACE PRESSURE CONTOUR OF MODEL; M = 2.0, Φ \mp 90°, α = 15°

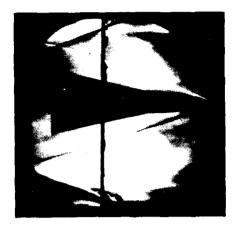


FIGURE 8. SCHLIEREN PHOTOGRAPH; M = 3.0, α = 0°, ϕ = 0°



FIGURE 9. SCHLIEREN PHOTOGRAPH; M = 3.0, α = 15°, ϕ = 0°

TABLE 1. MODEL RUN POSITIONS

MODEL ROLL ANGLE, Φ	WING ORIENTATION (LOOKING DOWNSTREAM)	
o	*	
22.5	¥	
45.0	*	
· 67.5	- L	
90.0	*	
112.5	>-	
135.0	*	
157.5	-#	·
180.0	+	
202.5	*	
225.0	*	
247.5		
270.0	→	
292.5	*	
315.0	** *-	DENOTES THE QUADRANT
337.5	/-	IN WHICH THE PRESSURE TAPS ARE LOCATED
360.0	•	

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TABLE 2. DATA; M * 3.0, $\Phi = 90^{\circ}$, $\alpha = 0^{\circ}$

12.1 40	3.0																																				
WTR1421 RUN 40	degf MACH		163.6	•	0.5675,0.5857	0.4459,0.4428	0.3888	0 3374		0.3428	0.3497	0.3521	0.3690	0.3734	0.3735	0.3826	0.3824	0.3790	0.3431		1 2425														. 3200		9000.0
=	T0 107.12 de .0000		148.6		0.5738	4	0.3841	0 3377		0.3471	0.3490	0.3610	0.3563	0.3678	0.3725	0.3839	0.3760	0.3827	0.3630		1 2185				•									0.3134	0.3135,0.3200	0.3086	0.3554
TEST 3) PSI#2(1C/1)	psta 1 FACTOR: 1.C	(PSI)	133.6		0.5750	1	0.3870	0.3317		0.3422	0.3484	0.3573	0.3734	0.3697	0.3742	0.3812	0.3772	0.3768	0.4352	(PSI)	1 0935											0.3065	0.3271				0.3721
12 PRESSURE 1 V PSI#1(PR/10)	PO 14.63 ps SCALE FA	PRESSURES	118.6		0.5756		0.3889	0.3334			0.3517	0.3608	0.3635	0.3703	0.3739	0.3790	0.3792	0.3859	0.4013	WING PRESSURES	2889									0.3191		0.3856	0.3810			0.3759	0.3770
TUNNEL PSI CONFIGURATION	DATA	BODY	9.		0.5715 (1	3966	3292				3533	3639	3699	3745	3772	3832 (3835 (4314 (3	0.8435							0.3469	0.3646	0.3702		0.3781	0.3803		0.3895		0.3760
PSI	88.55 deg AVERAGED DATA		103				0	C					0	Ö				0	0		0.7185					0 3606	0.3640	0.4016	0.3683	0.3776	0.3736		0 3837				0.3716
	PHI			0.8940	0.5597	0.4495	0.4020		0.3422	0.3443	0.3511	0.3563	0.3621				0.3821	0.3826	0.3964		0.5935)		0.3407	0.3577	0.3720	0.3399	0.3812	0.3634	.0.3730	0.3675						3751
12.1 40	04 deg		'd theta	n o	5	ō	ശ) u	0	n	2	8	0	5	0	2	0	5	0) .6/.1	36810	0 3497		6 0, 3340!					0.3683							0
W1R1421 RUN 40	ALPH 0.		D/2	o -	-	5	~ (o e	· 4	-	77	7	5	5	9	9	7	7	œ.		D/2	3 625	3 875				4.875		5 375							7 125	7,375

TABLE 3. DATA; M=30, Φ=90°,

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12 PRESSURE TEST PSI#1(PR/10) PSI#2(TC/1) 14.62 psia TO SCALE FACTOR: 1.0000
BOOY PRESSURES
9 .
0.4610
3227
2972
2971
2955
2980
2995
3313
3285
3261
3252
0.3209
2
WING PRESSURES
0.9685
0.1262
•
0.1392
0.1297
_
0.1333
Ξ.
0.1216

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TABLE 4. DATA; M = 3.0, Φ = 90⁰, α = 10⁶

WTR1421 RUN 42	MACH 3				. 4575	. 3390														-	ď	,													
	egf		163.4		0.4419,0.4575	0.3352,0	0.2760	0.1868	0.1683	0.1559	0.1409	0.1230	0.1135	0.1205	0.1236	0.1460	0.1678	0.1961	0.3001		36 PE 1														/000.0
2	10 107.22 degF 1.0000		148.4		0.3954	0.0460	0.2402	0.2082	0.1943	0.1899		0.1889	0.1794		0.2049	0.1942	0.1943	0.1975	0.2601		1 2185) ; ;					-	•	~	••			0.0760	100000	0.080.0
TEST) PS1#2(TC/1)	psta t FACTOR: 1.C	(PSI)	133.4		0.3740	0 000	0.6331	0.2126	0.2023	0.2019	0.1905	0. 1967	0.2032		0.2485	0.2487		0.2155	0.2962	(PSI)	1 0935										0.0552	0.0808	0.0772	0000	0.0/87
12 PRESSURE TEST PSI#1(PR/10) P	14.62 SCALE	BODY PRESSURES (118.4		0.3689			0.2271	0.2036	0.1905		0.1688		0.2408	0.2421	0.2472	0.2386	0.2402	. 2589	WING PRESSURES	0.9685								0.0574		0.0632	0.0703	0.0810	0000	0.0/33
TUNNEL PSI CONFIGURATION	PO DATA	800																	33 0	3	0.8435						3000	0.0683	0.0389	0.0516	0.0561	0.0699	0.0746	01:0	02/0.0
PS1 C0	88.42 deg Averaged data		103.4		0.3690	0000	7.0	0.2565	0.2865	0.3099	0.3204	0.3184		0.3124	0.2882	0.2867			0.3333		0.7185					0.0695	0.0598	0.1433	0.0506	0.0489	0.0574	0.0905	0.1116	0000	0.1028
	IНЧ		theta: 88.4	•	.365	0 3072			0.3094	0.3139	0.3175	~	0.3279	319	305	. 293	. 29		0.2952		0.5935		•	0.0471	0.0676	0.0694	0.0599	0.1207	0.1127				0.1871		0.1801
WIR1421 RUN 42	9.95 deg		z/d th		1.5	2.0 5		ව ව		4.3			5.0			6 5	7.0	7.5	8.0		z/d r/d:	625	875 0.0625	. 125			2/B		625 0 1218	875		375	625		.8/2
3 2	ALPH																					9	ຕ	₹	4	4.	⊒ nt	יט ר	טנט	5	9	9	9	•	٥

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TABLE 5. DATA; M = 3.0, $4 = 90^{\circ}$, $\alpha = 15^{\circ}$

21	3.0		,																																			
WIR1421 RUN 43	MACH			6.50		0.3621,0.3791	0.2673,0.2696 0.2138)	1657	.0436	0.0293	0.0220	0.0071	0.0251	0.0435	0.0555	0.0748	0.0818	0.000	. 1539			1.3435														n	0.0680
c	T0 107.18 degF 1.0000		7 041			0.2856 0.	0.1631		0.1411	. 1565 0		1376	1193										1,2185												8890	0.0388	0.0508	0.0614
E TEST 10) PS1#2(TC/1)	psia FACTOR: 1.0	(PSI)	132 6		0	0.2733	0.1870		0.1484	0.1493	0.1544	0.1391	0.1412	0.1524	0.1675	0.1728	0.1602	0, 1367	0.1083	0.2234	(PSI)		1.0935										0.0350	0 0602	0.0595	0.0643	0.0493	0.0580
EL 12 PRESSURE TEST ION PSI#1(PR/10) P	PO 14.64 SCALE	BODY PRESSURES	118.5		0 2013	2	0.1944		Ξ.	_						0.1768	0.1630	0.1426		0.1837	WING PRESSURES		0.9685		٠						0.0291		0.0478		0.0653	0.0584	0.0532	0.0651
TUNNEL PSI CONFIGURATION	88.48 deg AVERAGED DATA	_	103.5		0.2998		0.2104								0.1940	0.1961	0.1991	0.2084		0.2992		0 0	>					_	0.0420					O			0	0.0670
٤	PHI 88.4 AVER		8.5	0.4519	3677 3063	2681	2754	2468	2667	2486	2475	2459	2561	2542	7396	787	2309	2393	2450	2600		0 7185					0.0469	0.0348		0.0290	0 0384	0.0407	0.0536	0.0796	0.0939	0.0796	0.0819	0.0933
	deg		theta: 88	0 0		0.3					•								•	0.2		r/d: 0 5935	•	0.04681	0.0279	0.01361 0.0489	0.0450	0.0334	0.0499		0.0924,0.0563	0.0706			0.0798	0.0740		0 1003
WIR1421 RUN 43	ALPH 14.94		_	0.5) - - -	2 0	2.5	י ר	n c	7 •									G 0	C) 100		J p/z		878					5 125	375					4			7.375
	•																																					

WHITE DAK LABORATORY

TABLE 6. DATA; M = 3.0, $\Phi = 270^{\circ}$, $\alpha = 0$

421	_e .																																							
WIR 1421 RUN 72	MACH			344.6			0.5963,0.5855	0.46/4,0.4398			0.3518	0.3629	0.361/	0.36/9		0.3856		0.3856		0.4032				1.3435														. 669		• • • • •
9	T0 110.59 degF 1.0000		9 000	0.630		3009		40.15	. 101.	0 3/01	3561	3614	3644	3041	3674	7070	20.42	3847	2070	3991	.3798			1.2185												1	0.3595	0.3484,0.3693	0.3854	0000
E 1ES1 10) PS1#2(TC/1)	psta Factor: 1.	(PSI)	3 14 6			0 6076		0 4048		0 3409			0.355			_		•				(PSI)		1.0935							•			0 3582	0.000	0.3798		0.4028		1100
ON PSI#1(PR/10) P	PO 14.84 SCALE	BODY PRESSURES	299 6)		0.6061		0.4064		0.3423		0.3570									0.4145	WING PRESSURES	9090	0.9083				•				0 3738)))	0 3941			0.4066	0.3974	0.3913	0000.0
PSI CONFIGURATION	69,64 deg Averaged data		284.6			0.5987		0.4116		0.3394		0.3525			0.3782	0.3815				0.3951	0.4360		0 8435							0.3898								•		.,00
P	269,64 AVERA			•	~	0	•	10	_	~	•	•		•			_	_					0.7185)				0.3940											0.00.0	0 3873
	вед Бин		theta: 269.6	0.928	0.736	0.5800	0.468	0.416	0.331	0.340;	0.353(0.3532	0.360	0.3660	0.3725	0.3796	0.3854	0.3940		0.3935	0.4014		1: 0.5935		3778+	0 3686	36781 0.3853	0.3948	0.3830	0.3957	0.3740	99,0.3851	0.3715		0.3992	0.3855	•			200
RUN 72	.0.09 deg		_	0.5					3.0	3.5		4 .0	4.5							7.5	0°8		z/d r/d:	3.625 0.3960	875 0.	4, 125	0	4.625		5, 125	•	625 0.37	5.875			6 625			7.375	?
	AI PH																																							

WHITE DAK LABORATORY

FIGURE 7. DATA; M = 3.0, ϕ = 270°, α = 5°

21	3.0																																	
WTR1421 RUN 73	јғ МАСН		344.7	0.6273,0.6078	0.4218	0.4042	0.4341	0.4359	0.4438	0.4771			•		0.4956	0.3755		1.3435														. 5317		0.5220
:	T0 110.75 degf 1.0000		329.7	0.6849	0.4475	0.3909	0.4205	0.4335	0.4359	0.4437	0.4574	0.4734	0.4845	0.4813	0.4937	0.4687		1.2185													0.5508	0.5461,0.5317	0.5256	0.5150
1EST 0) PSI#2(FC/1)	psta FACTOR: 1.	(PSI)	314.7	.0.7269	0.4803	0.3860	0.4084	0.4167	0.4303	0.4643	0.4530	0.4596	0.4677	0.4777	0.4881	0.5407	(PSI)	1.0935												0.5469	0.5392	0.5367	Ö	0.5057
12 PRESSURE 1ES	PO 14.84 p	BODY PRESSURES	299.7	0.7594	0.5047	0.4045	0.4067	0.4154	0.4242	0.4472	0.4538	0.4592	0.4569	0.4649	0.5008	0.5099	WING PRESSURES	0.9685				•	·				0.5320		0.5393	0.5254	0.5376	0.5224	0.5115	0.5090
TUNNEL PSI CONFIGURATION	g DATA	080	7.	0.7712	.5239	1145	165	0.4168	0.4171	0.4232	0.4492	4556	.4572	0.4710	4786	5251	\$	0.8435								0.5306	0.5134	0.5140	0.5177	0.5223	0.5223	0.5236		0.5024
PSI C	269.66 deg Averaged data		284		0	0.4						0	0		0	0		0.7185					0.5460							0.5175				0.4932
	PHI			0.9516	0.5291	0.4207	0.420	0.4182	0.4209	0.423	0.4429	0.4534	0.4650		0.4768			0.5935			0.5249	0.5397	0.5365	0.5431	0.5235	0.4997	0.507	0.4923		0.5135	0.4953	0.4937	. 493	0.4965
W1R1421 RUN 73	4.92 deg		z/d theta 0.5	0.1.0	2.0				4. 4. T. 0									/d r/d:	5 5	0		0.5234!					0.4992,	875	125	375	325	375	125	375
WIR	AI PII																	/ z	3.6	3.6	~							5 8					7.1	7.5

WHITE DAK LABORATORY

TABLE 8. DATA; M = 3.0, Φ = 270°, α = 10

				; ;	SOL SON LOOK I TON	(01 /:: : : : : : : : : : : : : : : : : :		PSI#2(16/1)		RUN 74
At PH	6 93	deg	Ha	269.47 deg AVERAGED DATA	DATA	PO 14.84 SCALE	psta FACTOR:	10 110.66 c	degf	MACH 3.0
					BC	BODY PRESSURES	5 (PSI)			
	2/d 0.5 1 0	theta:	269.5 1.4933 1.2299	284	ស	299.5	314.5	329.5	344.5	
	2.0		0.9895	0.994	44	0.9515	0.8691	0.7665	0.6478,0.6170	071
			0.6916	0.6802	02	0.6354	0.5740	0.4964	0.5012,0.4551	55.1
			0.5434	0.5355	55	0.5004	0.4461	0.4241	7405	
			0.5365	0.5278		0.4380	0.4829	0.5081	0.4911	
			0.5386	0.5272		0.5069	0.5151		0.5173	
			0.5396			0.5332	0.5429	0.5520	0.5312	
			0.5476	0.3461		0.5499 0.566	0.5736	0.5553	0.5565	
			0.5665			0.5555	0.5/2/	0.5800	0.5587	
			0.5873			0.5803	0.5809	0.6034	0.5733	
			0.5981	0.5995			0.6099	0.6107	0.3900	
	7.5			0.6134		0.6388	0.6234	0.6075	0.6077	
			0.6352	0.6633		0.6486	0.6754	0.5769	0.4657	
					3	WING PRESSURES	(PSI)			
7	ı p/z	r/d: 0.5935	ប៊ី	0.7185	0 8435	8890	•	•		
		•				1000		1.2185	1.3435	
		0.6812+				•				
		0.7053	3							
	3/5 0.	/034	72							
7 77	623 875	0 7167	<u>-</u> -	0.7223						
	125	0.6864	. 4							
	375	0.6595	, rū		0.7206					
	0	6463,0.6620	0			0 7004				
	B75	0.646	-	0 6646	0.6830			٠		
	125					0.7077	0.6946	9		
	375		-	0.6744	0.6810	0.6891		98		
	625		9		0.6806	0.6981		13 0.7107		
	875		0		0.6797	0.6793			0 6861	
۰ ۲	125	0.6419	б (0.6490		0.6693				
		2	LE C	0070	0 0 0		•			

WHITE DAK LABORATORY

TABLE 9. DATA; M = 3.0, ϕ = 270°, α = 15

PHI 269.47 deg AVERAGED DATA SCALE FACTOR: 1.0000 10.99 degf AVERAGED DATA SCALE FACTOR: 1.0000 1.0.99 degf 1.249 psi a. 1.0000 1.0.99 degf 1.2490 1.2790 1.1.1911 1.0387 0.8626 1.2790 1.1.1911 1.0387 0.8626 1.2790 0.7105 0.6330 0.5522 0.5838 0.7181 0.6999 0.6330 0.5522 0.5838 0.7181 0.6999 0.6330 0.5522 0.5838 0.7181 0.6999 0.6330 0.5904 0.6943 0.7187 0.6986 0.7044 0.7045 0.7046 0.704	WTR1421 . RUN 75	MACH 3.0		344.5		0 6106 0 6106	0.6/20.0.6290 0.5245 0.4640	0.4428		. 5080	0.5922	0.6098	0.6379	0.6538	0.6752	0.6657	0.6856	0.7198	0.7649	0.7733	0.5771		1 3435	0												112
TUNNEL T2 PRESSURE TEST PSI CONFIGURATION PSI#!(PR/10) PSI#2(T) AVERAGED DATA AVERAGED DATA 1. 269.5 1. 269.5 1. 284.5 2. 299.5 2. 1. 2790 1. 1911 1. 0.387 0. 9120 0. 7125 0. 7125 0. 7125 0. 7125 0. 7125 0. 7126 0. 7127 0. 6942 0. 6930 0. 7032 0. 7127 0. 6942 0. 6930 0. 7032 0. 7137 0. 6967 0. 7148	. (1)	110.99		S.						4745	5838																									0.9134,0.8912
TOWNEL TOWN IGURATION PHI 269.47 deg PO AVERAGED DATA AVERAGED DATA BODDY ta: 269.5	RE TEST /10) PSI#2(TC,	psta FACTOR:	S (PSI)	314.5		1 0387	200.1	0.7032		0.5436	0.5522	0.5905	0.6494	0.6901	0.7333	0.7376	0.7546	0.7924	0.7964	0.8150	0.8650									•		Ö	Ö	•		
ta: 269.5 1.8490 1.5496 1.2852 1.0443 0.7422 0.7422 0.7422 0.7484 0.7181 0.7181 0.7181 0.7183 0.7183 0.7183 0.7183 0.7183 0.7183 0.7183 0.7183 0.7183 0.7183 0.7183 0.8358 0.937 0.9389 0.9389 0.9389 0.9889 0.9889 0.9889 0.9889 0.8889 0.9889 0.9889 0.9889 0.9889 0.9889 0.9889 0.9889 0.9889 0.9889 0.9889 0.9889 0.9889	_			299.5		1101		0.8136			0.6330	0.6330	0.6412	0.6758	0.7042	0.7295	0.7483	0.7595	0.7875		•	WING PRESSUR						5	2 2			0	0	•	Š	o o
ta: 269.5 1.8490 1.5496 1.5496 1.2852 1.0443 0.7117 0.7117 0.7117 0.7181 0.8181 0.8181	TUNI PSI CONFIGURA	69.47 deg AVERAGED DATA		284.5		1 2790	06.13.	0.8927		0.7105	0.6999	0.6942	0.6967	0.6986	0.7134	0.7246	0.7405	0.7583	0.7895				7 185				. 9595	9391	0 0908	8975	8821 0.	.8811 0.	.8897 0.	0700	0/00.	8640 0.
÷					1.8490	1.5496	1.0443	0.9120	0.7422	0.7259	0.7181	0.7117	0.7167	0.7177	0.7148			0.7648	0.7834		∞.		5935		9389	80							.8589	• (00	8364	8368

REFERENCES

Ausherman, D.W., <u>Surface Pressure Measurements on a Double Delta Wing/Body Configuration at Mach 2 and Mach 3</u>, NSWC MP 86-240, June, 1986.

NOMENCLATURE

đ	body diameter, inches
М	Mach number
p	surface pressure, psia
Po	supply pressure, psia
r	radial distance from the model centerline, inches
To	supply temperature, degrees F
7	axial distance from the nosetin inches

alpha, model angle of attack, degrees
theta, angular position of pressure tap, degrees
phi, model roll angle, degrees

<u> ARABAH BANGGARAN KASISALAN BANGGARAN BANGARAN BANGGARAN BANGGARA</u>

APPENDIX

TEST RESULTS

TEST MATRIX

RUN #	MACH #	Œ	ф	DATE
046 047 048 049 050 051 052 053 054 055 056 057 058 059 060 061 062 063 064 065 066 067 068 069 070 071 072 073 074 075 076 077 078 079 080	2.02 2.02 2.02 2.02 2.02 2.02 2.02 2.02	0 5 10 15 0 5 10 15 0 5 10 15 0 5 10 15 0 5 10 15 0 5 10 15 0 5 10 15 0 10 15 0 10 10 10 10 10 10 10 10 10 10 10 10 1	0.0 0.0 0.0 0.0 22.5 22.5 22.5 45.0 45.0 45.0 67.5 67.5 67.5 67.5 67.5 112.5 112.5 112.5 112.5 112.5 135.0	4/30/85 4/30/85
	2.02 2.02 2.02 2.02 2.02			
084 085 086 087 088 089	2.02 2.02 2.02 2.02 2.02 2.02 2.02	10 15 0 5 10 15	202.5 202.5 225.0 225.0 225.0 247.5	4/30/85 4/30/85 4/30/85 4/30/85 4/30/85 4/30/85 4/30/85
091	2.02	5	247.5	4/30/85

TEST MATRIX	(CONTINUED)
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	TEST M	MIRIX (CONTI	NUED)	
RUN #	MACH #	α	•	DATE
092	2.02	10	247.5	4/30/85
093	2.02	15	247.5	4/30/85
094	2.02	0	270.0	4/30/85
095	2.02	5	270.0	4/30/85
096	2.02	10	270.0	4/30/85
097	2.02	15	270.0	4/30/85
098	2.02	0	292.5	4/30/85
099	2.02	5	292.5	4/30/85
001	2.02	10	292.5	4/30/85
002	2.02	15	292.5	4/30/85
003	2.02	0	315.0	4/30/85
004	2.02	5	315.0	4/30/85
005 006	2.02	10	315.0	4/30/85
008	2.02 2.02	15 0	315.0	4/30/85
009	2.02	5	337.5 337.5	4/30/85 4/30/85
010	2.02	10	337.5	4/30/85
011	2.02	15	337.5	4/30/85
012	2.02	0	360.0	4/30/85
013	2.02	5	360.0	4/30/85
014	2.02	10	360.0	4/30/85
015	2.02	15	360.0	4/30/85
024	3.02	0	0.0	4/30/85
025	3.02	5	0.0	4/30/85
026	3.02	10	0.0	4/30/85
027	3.02	15	0.0	4/30/85
028	3.02	0	22.5	4/30/85
029	3.02	5	22.5	4/30/85
030	3.02	10	22.5	4/30/85
031	3.02	15	22.5	4/30/85
032	3.02	0	45.0	4/30/85
033	3.02	5	45.0	4/30/85
034	3.02	10	45.0	4/30/85
035	3.02	15	45.0	4/30/85
036	3.02	0	67.5	4/30/85
037	3.02	5	67.5	4/30/85
038 039	3.02	10	67.5	4/30/85
	3.02 3.02	15	67.5	4/30/85
040 041	3.02	0 5	90.0	4/30/85
041			90.0	4/30/85
U # Z	3.02	10	90.0	4/30/85

TEST MATRIX (CONTINUED) RUN # MACH # DATE α 043 3.02 15 90.0 4/30/85 044 3.02 0 112.5 4/30/85 045 3.02 5 112.5 4/30/85 046 3.02 10 112.5 4/30/85 047 3.02 15 112.5 4/30/85 048 3.02 0 135.0 4/30/85 049 5 3.02 135.0 4/30/85 050 3.02 10 135.0 4/30/85 3.02 051 15 135.0 4/30/85 052 3.02 0 157.5 4/30/85 053 3.02 5 157.5 4/30/85 054 157.5 3.02 10 4/30/85 055 3.02 15 157.5 4/30/85 056 3.02 0 180.0 4/30/85 057 3.02 5 180.0 4/30/85 058 3.02 10 180.0 4/30/85 059 3.02 15 180.0 4/30/85 060 3.02 0 202.5 4/30/85 061 3.02 5 202.5 4/30/85 062 3.02 10 202.5 4/30/85 063 3.02 15 202.5 4/30/83 064 3.02 0 225.0 4/30/85 065 5 3.02 225.0 4/30/85 066 3.02 10 225.0 4/30/85 067 3.02 15 225.0 4/30/85 068 3.02 0 247.5 4/30/85 069 3.02 5 247.5 4/30/85 070 3.02 10 247.5 4/30/85 071 3.02 247.5 15 4/30/85 072 3.02 0 270.0 4/30/85 073 3.02 5 270.0 4/30/85 074 3.02 10 270.0 4/30/85 075 3.02 15 270.0 4/30/85 076 3.02 0 292.5 4/30/85 077 3.02 5 292.5 4/30/85 078 3.02 10 292.5 4/30/85 079 3.02 15 292.5 4/30/85 080 3.02 0 315.0 4/30/85 081 5 3.02 315.0 4/30/85 082 3.02 10 315.0 4/30/85 083 3.02 15 315.0 4/30/85

0

5

10

337.5

337.5

337.5

4/30/85

4/30/85

4/30/85

084

085

086

3.02

3.02

3.02

	TECT A	ARTER (CONTE		
RUN #	MACH #	ATRIX (CONTI a	•	DATE
087 088 089 090 091	3.02 3.02 3.02 3.02 3.02 4.00	15 0 5 10 15	337.5 360.0 360.0 360.0 360.0	4/30/85 4/30/85 4/30/85 4/30/85 4/30/85 5/06/85
010 011 012 013 014 015	4.00 4.00 4.00 4.00 4.00 4.00	5 10 15 0 5	0.0 0.0 0.0 22.5 22.5 22.5	5/06/85 5/06/85 5/06/85 5/06/85 5/06/85 5/06/85
016 017 018 019 020	4.00 4.00 4.00 4.00 4.00	15 0 5 10 15	22.5 45.0 45.0 45.0 45.0	5/06/85 5/06/85 5/06/85 5/06/85 5/06/85
022 023 024 025 026	4.00 4.00 4.00 4.00 4.00 4.00	0 5 10 15 0 5	67.5 67.5 67.5 67.5 90.0 90.0	5/06/85 5/06/85 5/06/85 5/06/85 5/06/85 5/06/85
027 028 029 030 031	4.00 4.00 4.00 4.00 4.00 4.00	10 15 0 5 10 15	90.0 90.0 112.5 112.5 112.5	5/06/85 5/06/85 5/06/85 5/06/85 5/06/85 5/06/85
033 034 035 036 037 038	4.00 4.00 4.00 4.00 4.00 4.00	0 5 10 15 0 5	135.0 135.0 135.0 135.0 157.5 157.5	5/06/85 5/06/85 5/06/85 5/06/85 5/06/85
040 041 042 043 044 046 047	4.00 4.00 4.00 4.00 4.00 4.00	15 0 5 10 15 0 5	157.5 180.0 180.0 180.0 180.0 202.5 202.5	5/06/85 5/06/85 5/06/85 5/06/85 5/06/85 5/06/85 5/06/85
048	4.00	10	202.5	5/06/85

		TEST MATRIX	(CONTINUED)	
RUN	# MAG	CH #	φ	DATE
049	4.0	00 19	5 202	.5 5/06/83
050	4.0		225	
051	4.0		225	
052	4.0			
053	4.0	_		
054	4.0		247	
055	4.0		247	
056	4.0			
057	4.0			
058	4.0			_
059	4.0		270	
060	4.0			
061	4.0			
062	4.0			
063	4.0			
064	4.0			
065	4.0			
066	4.0			
067	4.0			
068	4.0			
069	4.0			· · · · · · · · · · · · · · · · · · ·
070	4.0			
071	4.0		337.	
072				
073	4.0			
074	4.0			
075	4.0		360.	
075	4.0			
0/0	4.0	0 10	360.	0 5/06/85

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42 t 46	3.0												,	•																		
WIR1421 RUN 46	MACH		73.5	2.2242,2.2765	-	1.6704	1.7507	1.8058	1.7610	1.8066	1.8102	1.8020	1.8549	1.8459	1.8741		1.3435													1.8474		1.7635
9.	T0 .110.49 degf 1.0000		58.5	2.2535	1.7332	1.6572	1.7179	1.7636	1.7731	1.7791	1.8107	1.8211	1.8280	1.8487	1.7674		1.2185												1.8165	1.8037,1.8	1.7986	1.7877
2 PRESSURE TEST PSI#1(PR/10) PSI#2(TC/1)	OR:	(PSI)	43.5	2.2622	1.7523	1.6427	1.7087	1.7298	1.7571	1.7964	1.8016	1.8199	1.8120	1.8370	1.8643	(PSI)	1.0935										0091	1.000	1 8200	1.8390	1.818.1	1.8189
_	PD 14,80 psta SCALE FACT	BODY PRESSURES	28.5	2.2714	.7538	.6261	.6916	. 72 10	. 7694	. 7845	. 7839	8139	. 8355	. 9047	. 8624	WING PRESSURES	0.9685		•				-			0.8104	0000	1.8440	1.8486	1.8364	1.8402	1.8331
TUNNEL PSI CONFIGURATION		008			.7615 1	6314	5398	7167	. 7406	7801	. 8093	8141	9665	8827	8568	3	0.8435							1.7799	1.7992	0.8043	1.7884	0210.1	1.8410	1.8511	1.8367	1.8474
PSI C	-1.47 deg Averaged data		13.5	2.2652	*	<u>-</u>	<u>-</u> -	-	<u>-</u>	-			-	-	8.1		0.7185					1.8121	1.7857	1.7795	1.7945	0.7982	1.7988	1.8023	. «	, cv	₹	1.8276
	1184		theta: -1.5 3.0826	2.2423		1.5716	1.6928	1.7173	1.7406	1.7623	1.8021	1.8297	1.8692	1.8694	1.8549		0,5935	12+	8	-	171 1.7765	1.7867	1.7788	1.777.1	1.776		1.7886	1 8363	1.8282	1.8346	1.8297	1.8261
WIR 1421 RUN 46	-0.09 deg			<u>-</u>		3.5 3.5	6.4 0.4				r S		7.0				z/d r/d:	3.625 1.7392	875 1	. 125	4.375 1.80971	4.625	4.875	5. 125	5.375	5.625 1, (965	5.875	6 275	6.625	6.875	7.125	
	ALPH																															

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- ~			PS1 CONF	TUNNEL TO	12 PRESSURE TEST PSI#1(FR/10) P	FST PS1#2(1G/1)	2	WIR1421 RUN 47	21
94 deg	D :	PHII	1.39 deg AVERAGED DATA	P0	14.80 psta SCALE FACT	0R:	10 111.00 degf 1.0000	F	2.0
				800Y	BODY FRESSURES (F	(FSI)			
	theta: 3.	-1.4	13.6	28.6	9	43.6	58.6	73.6	
		. 5888	2.1271	2.0699		2.0191	1.9929	1.9583,2.6194	
	<u>-</u>		1.6505	1.6083	183	. 5985	1.5857	1.6961,2.1795 1.6034	
		. 4938 . 5264	1.5117	_	4866	.5185	1,6064	1,6332	
	<u>.</u>	. 5661	1.5263		5575	.6230	1.6819	1.7475	
		5762	1.5739	-	6 196	.6498	1.6933	1.7498	
	-	5892	1.57/8	-	.6043	.6604	1.7447	1.7927	
	_	6175	1.6586		7019	.7594	1.7694	1.8114	
	-	.6845	1.7204		. 7315	. 7820	1.8021	1.8172	
	-	. 7098	1.7147	<u>-</u>	7518	. 7963	1.8168	1.8240	
	-	7309	1.7245	- -	. 7650	.8025	1,8363	1.8410	
		7394	1.799	- -	.7713	. 7852	1.8147	1.8610	
		742	1.7473	-	7975	.8014	1,7851	1.8554	
				WING	WING PRESSURES ((PSI)			:
r/d:	. 0.5935		0.7185	0.8435	0.9685	1 0935	1 2+85	1 2425	
1.7422+	*~				; ; ;				
1.7396	4								
è	╸.								
. 6.303	191 1./932	•	• 070		٠				
	1 7977		•						
	1.8098		1.8114	1.7986	•				
	1.8072		•	1.8267					
1.8295	0			0.8332	0.8363				
	1.8226		1.8311	1.8161					
			1.8370	1.8437	1.8513	1.7962			
	1.8710		1.8760	1.8701	1.8506	1.8405			
	1.8577		1.8701	1.8783	1.8843	1.8534	1.8408		
			1.8623	1.8868	1.8714	1.8752	1.8403,1.8293	3293	
	1.8569		1.8712	1.8690	1.8718	1.8548	1.8357		
	8455		OF40 +	0300	0000	2070 .			

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421	2.0																																		
WTR1421 RUN 48	JF MACH		73.5		•	1.5641,2.5552	1.5191	0,00	1 6000	6793	1.7177	1.6665	1.7125	1.7183	1.6993	1.6982	1.7058	1.6821	1.7075		1 3435													. 9281	
÷	T0 111.55 degF		58.5		1,7531		1.4509	+ 5080	1 5082	1,5139	1.6436	1,6507	1.6462	1.6828	1.6831	1.6908	1.6503	1.6549	1.6235		1 2 185												1.8862	1.8735, 1	1.8657
TEST (0) PSI#2(TC/1)	psta FACTOR:	(PS1)	43.5		1.7504		1,3965	1 2525	1 4997	1.5410	1,5618	1.6121	1.6661	1.6843	1.6982	1.6879	1.6625	1.6971	1.7335	(PS1)	1 0935										1.8421	1.8869	1.8880	1.9113	1.8844
12 PRESSURE TEST N PSI#1(PR/10) P	PO 14.79 p SCALE F	BOOY PRESSURES (PSI	28.5		1.7868		1.3545	1 1887	1 2562	1.3530	1.3642	1.4795	1.5341	1.5763	1.6104	1.6491	1.6779	1.7620	1.7272	WING PRESSURES (PSI)	0.9685								0.8744		1.9046	1.8983	1.9259	1.9094	1.9090
TUNNEL PSI CONFIGURATION		00	13.5		.8803		. 3986	1728	5093	. 1386	1001	1.1349	. 2090	. 3874	4594	5380	. 6212	.6487	5013	3	0.8435						1 8420	1 8661	0.8842	1.8621	1.8982	1.9163	1.9214	1.9234	1.9024
PSI	-1.50 deg Averaged data				-		-	-	: -	-	_	-	-	-	-	_	_	-	_		0.7185					1.8740	1.8625	1.8743	0.8699	1.8861	1.8788	1.9064	1.8892	1.8763	1.8767
	11114		theta: -1.5	2.8812	2.0210	1.6983	1.5174	1.2/9/	1.2234	1.2018	1.1539	1.1520	1.1349	1.1428	1.2059	1.3386	1.4226	1.4635	1.4890		0.5935			1.8191	_	1.8631	1.8415	1 8292	.0.8575	1.8405		1.8591	1.8370	1.8295	1.8118
WIR1421 RUN 48	9.94 deg		77.10	e 0.	1.5	2.0	2 . 2 . 3	 	0.4	. 4	4.5	4 .8	5.0	g. 5	•	6.5	7.0	7.5	8 .0		z/d r/d:	1.625 1.7485+		1. 125	1,375 1,87301	. 625	4.8/5 5 125	. 375	1.9938		5, 125	3.375	. 625	3.875	. 125
.s u	=																					9	(7)	4	4	٠,	4 R	ר ער ז	i UD	u7	9	9	9	9	7

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1421 49	2.0																					•									
WTR1421 RUN 49	MACH		73.4	1.6007,3.6316	1.4263	1.4430	1.4779	1.4793	1.4163	1.4429	1.4717	1.4953	1.3707	1.2877	1.3804		1.3435									•			. 1555		1.8303
•	10 112.01 degf 1.0000		58.4	1.5133	1.3076	1.3368	1.3272	1.2046	1.0897	0.9583	0.8544	0.9091	0.9760	1.2068	1.3762		1.2185											1.9011		1.8794	1.8488
E TEST 10) PSI#2(1C/1)	psta FACTOR: 1.0	(PSI)	43.4	1.4086	1.0913	1.0847	1.0689	1.0387	1.0950	1.1664	1.1973	1.1612	1.2101	1.3223	1.4606	S (PSI)	1.0935									<u>-</u>	1.8823	-	-	-	1.8694
EL 12 PRESSURE 1EST 10N PSI#1(PR/10) P	PO 14.80 SCALE	BODY PRESSURES	28.4	1.4067	0.9215	0.7036	0.8158	1.0258	1.1747	1.2600	1.2464	1.3378	1.3664	1.4668.	1.4470	WING PRESSURES	5 0.9685	٠				6		7 0.8856	o	_	-	-	-	-	6 1.8270
TUNNEL PS1 CONFIGURATION	-1,63 deg Averaged data		13.4	1.5501	1.0416	0.7314	0.7279	0.7154		•	1.19/2	1.3954	1.4740	1.4909	1.4785		7185 0.8435				88	8935 1 8778	-	0	-	-	-	<u>-</u>	-	<u>-</u>	67 1.7106
	PHI - 1.		2.6871	2.2300 1.8288			0.9155	0.8151			1.0905		452	1.4779	1.4656		.5935 0.71		8717	1.8725		8/// 1.89	-	0	7164 1.77	_	-		-	<u>.</u>	4981 1.5267
WIR 1421 Run 49	14.98 deg		z/d theta: 0.5					. .		5.0	ر د د د د		7.0	7.5			r/d: 0			1.90821	-		-	2.3069,0.	-	•		-	. . .	25 1.	375 1.4
RUN	÷																~	•	•	•	4.6			•	•	•	•	•	9		•

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WIR 1421 RUN 50	- c	PSI CC	TUNNET PST CONFIGURATION	12 PRESSURE TEST IN PSI#1(PR/10) P	1EST (0) PSI#2(1C/1)	(1/1)		WTR1421
PH -0.08	B deg PHI	21.20 deg Averaged data	DATA	PU 14.77 F	ps la Factor:	10 112.97 0	degf	
			198	BODY PRESSURES (PSI)	(PS1)			
2/d 0.5	theta: 21.2 3.0689 2.6201	36.	2	51.2	66.2	81.2	96.2	
	228	9 2.2520	20	2.2617	2.2490	2.2378	2.2138.2.2777	7.1
3.5	1.7652	1.7566	99	1.7483	1.7442	1,7291	-	05
	1.638	_	06	1.6312	1,6269	9	1	
	1.695	0	**	1.6867	1.7067	1.0440	1.6605	
	1.7068		49	1.7253	1.7118	1 7477	1.7554	
	1.7116	-	02	1.7196 1	1.7252	1,7589	1,1443	
	PCC/./		53	1.7692	1.7502	1.77.17	1,7527	
	1 2007	- •	989	1.7833	1.7983	1.7709	1 8045	
	A100 5	-	_ ;	1.7754	1.7966	1.8035	1. BOOF	
	1 BAA 1	- •	3.5	8068	1.8159	1.8153	1.7984	
7.0	X1.10.1	- •	- C	1.8153	1.8201	1.8277	- C	
	06.00.1		00	.8241	1.8011	1.8140	1.8466	
8.0	0000:-		90	0668.	1.8255	1.8414	1.8313	
	,	1.84/2	2/	1.8477	1.8503	1,7651	1.8767	
			3	WING PRESSURES	(PS1)			
p/z	r/d: 0.5935	0 7185	0.40	1				
3.625 1	7315)	0	O. 9685	1.0935	5 1.2185	1.3435	
125								
375 1	B0821 1 7740							
625								
4.875	1.7676	1 7769						
5.125	1.7685	1.7707	1 7583					
375	-	1.7851	1,7933					
625 1	. 793	0.7913	0.7993	0 7999				
5.875	1.7824	1.7869	1.7787					
		1.7950	1.8051	1.8143	1.7480			
. ארנה הרת	1.8315	1.8357	1.8288	1.8118	1 7994			
	1818.1	1.8290	1.8367	1.8472	1 B 1 1	. 408		
7 - 7	1.8253	1.8209	1.8446	1.8277	1.833	. 0043	070	
	1.8201	1.8290	1.8251	1.8336	-	1.8008.1	. 8340	
2	. 8 105	1.8175	1.8391	1.6317	1.8171	-	1,7451	

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WTR 142 1 RUN 52	3H 2.0				_																											
34	F MACH		0.96	1.9467,2.5424	1.6884,2.1037	1.5480	1.6522	1.6571	1.6753	1.7361	1.7380	1.7435	1.7609		1.7494	1000.1		1.3435													2602	
2	10 114.96 degF 1.0000		81.0	1.9602	1.5901	1.5752	1.6475	1.6508	1.7028	1.7028	1.7336	1.7447	1.7586	1.7336	1.7577	T		1.2185												1.4440	1.4063, 1.2602	
TEST 3) PSI#2(TC/1)	psia FACTOR: 1.0	(PSI)	. 0.99	1.9763	1.6013	1.5581	1.6340	1.6418	1.6754	1.7270	1.7209	1.7307	1.7251	1.6993	1.7185		(PSI)	1.0935										1.3316	1.3268	1.4548	1.7421	
12 PRESSURE TEST N PSI#1(PR/10) P	PO 14.75 PS SCALE FA	BODY PRESSURES (PS1)	51.0	1.9938	1.5897	1.5115	1.5950	1.6451	1.6775	1.6879	1.6798	1.6997	1.7015	1.6980	1.7704		WING PRESSURES	0.9685						-		0. 2837	•	1.7.192	1.7878	1.8248	1.7882	1001
TUNNEL PSI CONFIGURATION	DATA	80	36.0	2.0162	.6044	. 5241	.5497	5954	.6093	.6528	. 6836	.6698	. 6809	.7157	. 1221		3	0.8435						1.2590	1.6474	0.7912	1.7412	1.7620	1.7852	1.7867	1.7987	
PSI					-	5015	69	86	96	1 96	91	75						0.7185				1.6355	1.7567	1.7174	1.7380	0.7478	1.7347	1.7410	1.7819	1,7798	1.7614	1 7005
	нд бөр		theta: 21.0	2.0399	1.6295		55	55	1.5798	1.5896	1.63	1.6575	1.6792	1.690	1.684			r/d: 0.5935	5972+	19251	1.52	-	1.2556	1.7140	1.7152	.6996,0.7472	1.7294		1.7828	1.7600		1 76.43
WTR 142 I RUN 52	PH 4.97 d		2/d 0.5				₹ ₹			5.0	•			0. 6					3.625 1.5	125	375 1.		4.875	5.125	.375	.625 1	5.875	6. 125	6.375	6.625	. 87	7 - 128

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Ŧ	WIR1421 RUN 53	бер	1114	PSI CONF	TUNNEL FOR TOURATION PO	T2 PRESSUR PSI#1(PR/ 14.75	ie test 10) PSI#2(TC/1) psia TO	C/1) TO 115.30 deaf		WTR 1421 RUN 53	
				AVERAGED DATA		SCALE FA	FACTOR:	8		5	
					800	BODY PRESSURES ((PSI)				
	p/z	theta:	21.1	36.1	•	51.1	66.1	-	• 96		
	n 0	0 C	2.5102					•	-		
		· -	7680	2000	•	1					
	5.0	-	5062	9/5/-		. 1477	1.7656	1.7775	1.7586,2.8539	39	
		-	7000	*****					1.5735,2.3378	78	
	9.0	-	. 1654	- F C C C	-	. 4291	1.4988	1.5136	1.5304	ı	
	(C)			-							
) -	-	700	1.2932	-	4066	1.4996	1.5739	1.4997		
		- •	. 1892	1.5316	-	. 4930	1.5493	1.5833	1 5534		
	4 4		. 2023	1.4043	_	5186	1.5278	1.5702	8698		
		<u>-</u>	. 1906	1.3992	-	.4734	1.5025	1.6057	1.6377		
	4. r		. 2318	1.4132		5209	1.5208	1.6031	3,03,1		
			. 2549	1.4593	_	5291	1.5624	1 5882	0.00.1		
	ກ ເຄື່ອ	~	3310	1.4828	-	5041	1.5357	1 6103	.0039		
		-	.3656	1.4720	_	5291	1.5360	40.0	0.40		
		-	4121	1.4777	_	5213	1 5167	0.00.	0700.		
		-	4512	1.5286	-	5090	1.4783	0064	20.5		
	7.5	-	4	1.5444	: -	5832	4904	1.3300	1.7.48		
		-	.4615	1.4745	_	5544	1 5650		1.6/42		
					•			- 434 A	1.7432		
					Z 13	WING PRESSURES	(PSI)				
	/J P/z	r/d: 0.5935	•	0.7185	0 8435	. 0	•				
	-	.4253+		•		0.9083	1.0935	1.2185	1.3435		
	.875 1	4180+									
	4.125	1.1612				•					
	_	31781 1.1720	_								
	4.625	1.6577		1.3304							
	4.875	1.0109	_	1.6561							
	5. 125	1.6761	-	1.6799	1.0158						
		-	_	1.7062	1.4355						
	_	1073,0.7171	J	0.7028	0.6915	9000					
	5.875	1.6899		1.6966	1 6860	0.000					
	6.125		_		7 140		•				
	6.375	1.7433	•		277.	1.5649	1.1518				
	6 625	17706	- •	1421	1.7408	1.69.1	1.1499				
	6.025 8.025		- '	. /411	1.7526	1.7542.	1.3629	1,2648			
	7 175	1.1222	- •	1.7217	1.7619	1.7420.	1.6208	_	1062		
	67! . <i>!</i>	1.729	_	1.7255	1.7269	1.7400	1.6718	-	,		
	•	1.7021	_	. 7 105	1.7372	1.7260	1.7102		1 3554		
		-						•	1. 4034		

HILTE DAK LABORATORY

deg	PEI		FIGURALION PO	14.74		10 115.60 degF	MACH	2.0
		AVERAGED DATA		SCALE F BODY PRESSURES	ACTOR: (PSI)	1.0000		
theta: 2.	21.0	36.0		51.0	66.0	81.0	0.96	
نے نے :	. 3924	1.3707		1.4653	1.6004	1.6569	1.6435,3.2173	
	9535	0.9746		1.2366	1,3913	1.4417	1.4573	
	6415	0.8617	-	. 2418	1.3445	1.5611	1.4698	
0	7590		-	1.1885	1.3262	1.5356	1.4739	
o ·	0.8120		-	. 1041	1.2564	1.4935	1.4770	
o 0	8478			7601	1.1760	1.4883	1.5698	
<i>i</i> c	0.9731	0.8722		9278	1.1333	1.4633	1.5632	
; -	1104	; -		7934	0.9585	1.4555	1.6803	
-	.0680	-			0.8290	1.4953	1.6479	
-	. 1448	1, 1540	0 0.	. 9863	0.8035	1.4928	1.6032	
<u>-</u> -	2528			1.1144	0.8958	1.3600	1.5473	
	279	1.2972		3194	1.3368	1,3129	1.4788	
			A W	WING PRESSURES	(PSI)			
0.5935		0.7185	0.8435	0.9685	1.0935	5 1.2185	1.3435	
1.1871+								
0.9206								
0.9342								
1.4775		1.0194						
0.8771		1.4746						
1.6883		1.6919	0.8824					
		1.6859	1.2738					
7586,0.7095		0.6837	0.6076	0.9254				
1.66.12		1.6746	1.6352					
,		1,6625	1.6724	1.4894	0.9562	2		
1.6790		1.6875	1.6849	1.6135	1.0799			
1.6128		1.6450	1.6642	1.6675	1.3210	1.0291		
1.5/83		1.5966	1.6540	1.6396	1.5360	1.0368,1	. 1346	
1.5437		1,5889	1.6116	1.6393	1.5775	-		
1,5253		1.5615	1.6165	1.6313	1.6080	1.4008	1.0319	

WHITE DAK LABORATORY

421 55	2.0																																	
WIR142 RUN SI	IGF MACH		118.9	2.2095,2.2805	1.7293	1.6588	1.7468	1.7849	1.7377	1.7955	1.7970	1.7792	1.8064	1.8385	1.8116	1.8771		3676 1										•				. 1.8151		1.7183
(1/1)	T0 116.02 degF 1.0000		103.9	2.2265	1.7208	1.6387	1.7147	1.7495	1.7640	1.7585	1.7936	1.8017	1.8207	1.7953	1.8283	1.777.1		1 2185											63	2	1.7950	1.7903	-	1.7804
RE 1EST /10) PSL#2(1C/1)	psta FACTOR:	S (PSI)	88.9	2.2357	1,7380	1.6137	1.7074	1,7139	1.7407	. 1.7981	1.787.1	1.8085	1.8036	1.7799	1.808.1	1.8293	ES (PSI)	5 . 1 . 0935				•					_		•	-	-	-	-	1.8131
L T2 PRESSURE 1EST ON PSI#1(PR/10) P	PO 14.73 SCALE	BODY PRESSURES (PSI	73.9	2.2456	1.7392	1.6129	1.6835	1.7143	1.7666	1.7809	1.7614	1.8001	1.8009	1.8080	1.8974	1.8262	WING PRESSURES	0.9685					•	•			0.7811		-	-	-	-	-	1.8303
TUNNEL PSI CONFIGURATION	43.90 deg Averaged data	&	58.9	2.2387	. 7467	. 6363	. 5005	. 7047	. 7266	91116	. 7913	. 7933	. 8062	.8482	. 8654	.8250		0.8435)						1.7533	1.7761	0.7802	1.7740	1.7891	1.8188	1.8334	1.8400	1.8155	1.8369
PSI	PHI 43.90 deg AVERAGED		43.9 .0424		7634 1 5528	6465	26932	. 7089	7314	7507	7802	. 8096	8370	8526	8502	8221		0.7185	•					1.7578	1.7539	1.7783	0.7723	1.7766	1.7782	1.8308	1.8255	1.8089	1.8170	1.8120
	д бөр		theta: 43	2 5 -	1.5	9.1	9	1.1	1.7	1.7	1.7	8.	8 .	æ. ·	9 .	49 .		r/d: 0.5935	• 9	.7028+	1.7427	7,7421 1.7457	1.7587	1.7525	1.7514	1.7542	.7689,0.7864	1,7553		1.8246	•	٠	•	1.8083
WIR 1421 RUN 55	- 80°0- Hd		b/z 0.5	2.5	3.0 3.0							•			•	•		J p/z		3.875 1.	4.125	-	4.625	4.875		375	-			•	•		7.125	7.375

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WTR1421 RUN 56	MACH 2.0			,2.4063	1.6866, 1.9772 1.5915													3435														
	gF		118.8	1.9558,2	1.6866	1 4726	1.5314	1.5341	1.5999	1.5682	1 6549	1.6566	1.6792	1.7044	1.6559	1.8551		-	:												1	
Ē	10 116.50 degF .0000		103.8	1.9616	1.5794	1 5688	1.5849	1.5813	1.6136	1.6289	1,6562	1.6623	1.6870	1.6544	1.6885	1.7468		1.0185													1.2528	
ESI PS1#2(1C/1)	. ac	(18	88.8	1.9699	.6093	5666	.6309	.6138	. 5996	.6386	6684	6731	.6639	.6354	. 6569	.6765	(PSI)	1.0935)										1.1839	1.2198	1.0727	•
T2 PRESSURE TEST PSI#1(PR/10) P	14.74 psta SCALE FACTOR	BODY PRESSURES (PSI	60 .		-	5548	6339	6674 1	6177	6763	6426	. 6636	134	174	7242	188	WING PRESSURES (1	0.9685									0.1574		1.0427	1.3632	1.5980	
	P0	BODY F	73.	1.9796	1.5975	-	1.63	1.66	1.6	1.0.1	1.64	1.66	1.6534	1,6474	1.72	1.6688	SNIN	0.8435) ! !				*		1.0259	0.9877	0.4163	.5829	. 6646	.6994	. 7 169	כככר
TUNNEL PSI CONFIGURATION	13.82 deg Veragej data		58.8	1.9723	1.6081	1.5635	1.4904	1.6459	1.6274	1.6258	1.6658	1.6474	1.6454	1.6814	1.6786	1.6371		7185 0					1066	4772	5225		0	-	8/69	1.7034	000/	
	PHI 4		ਚ ⋅	2.3002 1.9554	1.7129	1.4402	1.6087	1.6226	1.6022	1.60/4	1,6305	1.6431	1.6627	1.6699	55	1.6288		C			0	55	Ö		_		0	_				
	deg .		theta:															r/d: 0.5935	• 9	.3772+	0.8910	.97071 0.9055	1.4800	1.0212	1.6175		. 5995,0.6575	1.642	•	1.7036	1.00	0000
W1R1421 RUN 56	4 . 93		z/d 0.5		2.5								6.5		2.5			1 p/z	_	875 1	4.125	4.375 0.	4.625	4.875	5. 125	375	625 1	5.875	0.120	6.375	6.625	ב ב

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## PSI CONFIGURATION PSIA(FR/10) PSIA(IC/1) 9 94 (69) PHI 43-92 deg PSI (4-1000) PSIA(IC/1) 2 /4 theta: 43-9	WTR1421 RUN 57			118.9		1.7183,2.4948	1.5143,2.0154	1.4445	1.2844	1.2591	1.2429	1.3047	1.2848	1.4590	1.4891	1.5460	1.5887	1.5605	•	3435												
TUNNEL 12 PRESSURE TEST 14 (leg) FILL 43.92 deg AVERAGEU DATA - BODY PRESSURES (PS1) - 1.1814	<u>-</u>	116.83		103.9		1.7538		1.4843	1,4870	1.4532	1.4377	1.4476	1.4466	1.4721	1,4803	1.5127	1.5021	1.5472		1.2185											1.0067	
TUNNEL 12 PRESSURE 14 (leg PHI 43.92 deg PD PD 14.74 AVERAGEU DATA SCALE - BODY PRESSURES 1 1416 1 1416 1 14170 0.5935 1 1457	TEST) PSI#2(TC/1	:	PSI)	98.9		1.7807	!	1.5297	1.5589	1.5896	1.5622	1.5279	1.548/	1.5312	1.5021	1.4750	1.4380	1.4431	(PSI)	1.0935		•	•						0.9246	0.9576	0.8402	
TUNNE 14 (leg) PSI CONFIGURATI AVERAGE() DATA AVERAGE() DATA AVERAGE() DATA BY 1915 AVERAGE() DATA BY 1916 C 3 124 C 3 124 C 4 18 C 4 18 C 4 18 C 4 18 C 4 406 C 4 406 C 6 10 C 7 10		14.74 SCALE	Y PRESSURES (73.9		.7750			.5248	. 5750	. 5870	.5169	.5445	.4373	. 4048	. 3729	.3439	. 4248	NG PRESSURES	0.9685						•	0.8830		0.7426	0.9197.	1,1324	
14 (leg PHI 43. 14 (leg PHI 43.9 1 theta: 43.9 1 19815 1 19815 1 19815 1 19815 1 14816 1 1482 1 1499 1 1404 1 1404 1 1404 1 13989 1 1402 1 13989 1 1402 1 13989 1 1402 1 140 1 170,0.5292 1 15945 1 15945	TUNNEL ONF 1 GURAT I ON		. BOD	6		373			806 1	802	253 1	016	0000	552	1 990	850	231	137	Ä	0,8435					1	0.7710	0.8763	1.0739	•	1.4066	1.4848	
14 (leg 14 (leg 15 (17) (15) (15) (15) (15) (15) (15) (15) (15	PS1 CC	43.92 deg Averaged		58		1.1		4.	14.1	- 4	.5.	4.4		4.	1.4	£	<u> </u>	4		0.7185				0.6115	0.8400	1.4507	0.4098	1.4541	1.4866	1.5569	1.5649	
r/d: 0.8474• 0.58361		JHd		43.	2.3124	1.6810	1.4966	1.4118	1.2687	1.4717	1.4799	1.4452	4404	1.4164	1.4170	1.4292	1.4338	1,4220				O STRBO	,	_	0.7652	1.4427	0.5292	1.5257		1.6103	1.5945	
	7	94		٦/						•	•				6.0	6.5		٠.			0.8474	10150.0	375 0.58361			. 125 776	1.1770		. 125	. 375		

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12 1 58	2.0																																	
WTR 142 1 RUN 58	F MACH		119.0	1,4783,2.5899	1.2762	1.1124	0.8830	0.8056	0.8725	. 6663	1 2872	1.36.14	1.3778	1.3994	1.3794	1.6233		1 3435					•	•								0.5005		0000
÷	T0 116.98 degF 1.0000		104.0	1.5419	1.3813	1.3433	1,2591	1.2130	1.2000	1.1830	1.1671	1.2134	1.3078	1.3110	1.3606	1.5608		1.2185													0.7496	0.7397,0.	0.6248	1000
1ESI } PSI#2(1C/1)	PSTA TACTOR: 1.0	(PSI)	ó·68	1.6609	1.4755	1.5444	1.6179	1.5679	1.5002	1.5086	1.3027	1.2814	1.2571	1.2482	1.2714	1.1884	(PSI)	1.0935											0.6666	0.6898	0.5851	0.6953	0.8059	
12 PRESSURE TEST PSI#1(PR/10) P	PO .14.76 ps SCALE FA	BODY PRESSURES (74.0	.6154	. 4099	.3876	. 4088	. 4232	3243	. 4449	2017	. 1617	1185	. 0521	. 1624	. 1667	WING PRESSURES	0.9685									0.6292		0.6184	0.8021	0.9765	1.0766	1.1574	
TUNNEL PSI CONFIGURATION		800		•	-	1 1	15 1	1 1 1	- •	- •	27	97	53	87 1	32	-	3	0.8435							0.5536	0.5252	0.6875	0.8709	1.0819	1.2089	1.2888	1.3354	1.3378	100
PSI COM	44.04 deg AVERAGED DATA		59.0	1,5181	1.3334	1.3071	1.4675	1.1876	1.0790	0.9398	0.7527	0.7897	0.9853	1.1787	1.2202	1.2142		0.7185					0.4664	•	1.4043	1.0387	0.1935	1.2906	1.3462	1.4243	1.4260	1.4110	1.4227	0011
	IHd			1.6379 1.3597 1.1802	1.1349	1.0988	0.9208	0.8611	0.7544	0.7443	0.9064		1.0367	1.1303	1.1713	1, 1939		0.5935			0.4146	0.4348	0.6258	0.5467	1.3958	1.4619	.0.5249	1.5040		1.5331	1.4680	1.4456	1.4223	1000
WIR1421 Run 58	14.97 deg		z/d theta 0.5	1.0 1.5 2.0	2.5	3 E	4.0	4.3	4. 4 U 0	י פיע	ים ה ים כ	0.9	6.5	7.0				z/d r/d:	25 0.7115+	0.6937+	. 125	0.43531			. 125		0.8007		125	375	. 625	.875	. 125	37.0
RU	114																	N	e e	က	4	4	₹	4	J.	•		īŲ.	ý	9	Ġ		7.	

WHITE DAK LABORATORY

WTR 1421 RUN 59	2.0																																				
WTR	GF MACH		141.3		, ,	•	•		1.6509	1.7356	1.7113	1.7676	1.7202	1.7821	1.7864	1.7680	1.7983	1.8323	1.8014	1.8865			1.3435		•										1 7487		
Ę	10 117.38 degf 1.0000		126.3		2 2240	6.2240	1.7157		1.6368	1.7046	1.7325	1.7398	1.7583	1.7474	1.7872	1.7931	1.8093	1.7855	1.8172	1.7819			1.2185											1 6860		1 7397	. 122
1EST 0) PSI#2(TC/1)	psta FACTOR: t	(PSI)	111.3		2 2294		1.7357		1.6164	1.7024	1.6955	1.7063	1.7365	1.7951	1.7824	1.8028	1.7942	1.7672	1.7915	1.8437	(PSI)	1	C 6870								•	16531	1.233	1.7809	1.8169	1.8053)
12 PRESSURE 1EST V PSI#1(PR/10) P	PO 14.75 ps	BODY PRESSURES (PSI)	96.3		2 232B		1.7370		1.6082	1.6863	1.7274	1.7098	1.7654	1.7807	1.7550	1.7964	1.7946	1.7941	1.8878	1.8410	WING PRESSURES	900	0.9063		•		•			3965	٥. برورد	1 8023	1.7974	1.8363	1.8083	1.8245	
TUNNEL PSI CONFIGURATION	DATA	108	81.3		2,2205		1.7416		. 6286	. 4581	. 7066	. 7031	.7245	LLL.	. 7888	. 7897	. 7983	.8406	. 8554	8116	3	90.0	5.0						1.7114	1.7669	1 7511	1.7833	1.8118	1.8241	1.8334	1,7997	
PS1 C	66.28 deg Averaged data		8						-	-	-	-	1.7	1.7	1.7	-	-	-				7 9 5 7					1.7532	1.7393	1.7391	1.7666		1.7650	1.8275	1.8155	1.8000	1.8087	
	PHI			3.0135	2. 1822	1.8939	1.7565	1.5528	1.6427	1.6946	1.7065	1.7121	1.7301	1.7500	1.777.1	1.8089	1.8323	1.8476	1.8397	1.8082		0 5935			1.7115	1.7143	1.7407	1.7103	1.7361	1.7454 0.7788	7519		1.8247	0162.1	1.8069	1.7993	
WTR 1421 RUN 59	-0.08 deg		z/d theta		ָא י		2.5										6.5	7.0	7.5	•		. r/d.	25 1.6869+	875 1.68341		1.74921			125	1,7537		. 125	375	625	.875	125	
RUN	=																					1/2	3.6	8.6	4	4	4	47 (42 (ה ת ה	ກີຕ	. 60	9	6.3	9.9	6.8		

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WHITE OAK LABORATORY

Ē	WTR 1421 RUN 61	0 0 0	1110	PS1 CONF	IUNNEL PSI CONFIGURATION 24 dag	_	2 PRESSURE 1EST PSI#1(PR/10) PSI#2(TC/1) 14 75 psia 10	5/1) 10 117 BG deaf		7 1421 6 1	c
	6			AVERAGED DATA		SCALE	: :	9R · / L · O	GF MACH	7 .0	o
					800)	BODY PRESSURES	(184)				
	p/z	theta:	66.2	81.2	u,	96.2	111.2	126.2	141.2		
	s o		2.2406								
	. .		1.9526	1.7637	-	7757	1 7372	1 6980	1 6786 2 1193		
	5.0		1.5537		•		7 () ()	0000	1.4370 1.6955		
	2.5		1.5025	1.5313	-	5147	1.4694	1.3671	•		
	3.0		1.3754		•				2		
	3.5		1.5160	1.5785	-	5502	1.4662	1.3298	1.0917		
	4.0		1.5652	1.4433		5718	1.4471	1.3140	1.0625		
	4.3		1.5306	1.6167	-	5871	1.3949	1.3046	0.9831		
	4.5		1,4630	1.5745	<u>-</u>	5270	1.3573	1.2760	0.9727		
	4.8		1.4377	1.5523	-	5771	1.3680	1.2386	0.9595		
	5.0		1,4093	1.5623	-	5551	1.4021	1.1889	1.0785		
	5.5		1.3973	1.5457	-	5171	1.3985	1.2179	1.1700		
	0.9		1.3631	1.4750	-	4864	1.3913	1.2265	1.2214		
	6.5		1.3544	1.4448	-	.4410	1.3638	1.2693	1.3053		
	7.0		1.3389	1.4568	-	. 4083	1.3189	1.2720	1.4009		
			1.3177	1.4330	-	. 4786	1.3425	1.3492	1.4571		
	8.0		1.3048	1.3222	<u>-</u>	. 4254	1.4398	1.6554	1.8053		
					13	WING PRESSURES	(PSI)				
	7/4	r/d: 0 5935	ř.	0 7185	A 435	2890	1.000 t	-	24.26		
)	•		200			77.		
	3.875 0	0.3875+				•					
	4, 125	0.3159	59			•					
	0	7761 0.3377	37.7								
		0.4202	22	0.4113							
	•	0.5150	50	0.4101		•					
		1.1858	58		0.5224	•					
		1.2258	58	0.8101	0.5754						
	.625	0.9347,0.2848	18		0.5084	0.6158					
	•	1.2909	60	1.0385	0.5406						
				1.110	0.6989	0.6604	0.6567				
		1.4058	58	1.2126	0.8263	0.5834	0.7287				
	•	1.4150	50	1.2638	0.9589	0.5702	0.7254	4 0.7207			
	6.875	1.4122	22	1.2776	1.0566	0.6454	0.7117		. 6327		
	•	1.4524	24	1.3197	1.1157	0.7389	0.6128				
	7.375	1.4780	30	1.3552	1.1863	0.8491	0.5526		0.7191		

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WIR142 RUN G 141.4 141.4 1.2957, 1.9660 1.0149, 1.5341 0.3225 0.4014 0.3225 0.4014 0.3225 0.4014 0.3225 0.03219 1.0351 1.2686 1.6151	
1.29 0.32 1.29 1.03 1.03 1.03 1.03 1.03 1.03 1.03	. C
or O	0.3404
1 .38 .1 .1 .38 .1 .1 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2	0.5202,0. 0.5202,0. 0.5101
1FS1 Sta ACIUR: (PS1) 11.5429 1.3348 1.1464 1.0996 1.0996 1.09851 1.1882 1.1882 1.09851 1.09851 1.1554 1.1754 1.1754 1.1757 (PS1) (PS1)	0.4704 0.4597 0.3822 0.4223
12 FRESSURE PSIMIPPA/1 W PRESSURES 96.4 4230 4649 4871 4843 4871 4843 5374 5308 4428 5308 6556 6556 6556 6556 60.4	0.4625 0.5395 0.6250
B B B B B B B B B B B B B B B B B B B	0.8061 0.9054 0.9652
66.38 deg AVERAGED DATA AVERAGED DATA 81.4 81.4 81.4 1.5083 1.4603 1.5083 1.5083 1.5083 1.5083 1.2904 1.2904 1.2936 0.9320 0.7185 0.9320 0.7248 0.9425 0.9425 0.9425	1,2016 1,2058 1,2397 1,2471
66 4 1 9621 1 4949 1 4127 1 3789 1 2810 1 1973 1 0292 0 9749 0 9749 0 9749 0 9725 0 97	0004 0292 0246 0755
theu thet 55008* 47994 477996 600 600 600 600 600 600 600 600	1.000.
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WTR1421 RUN 63	degF MACH		163.7	2 2174 2 2645	1.8796, 1.8665	1.7220	. 6417	1 7321	1.7087	1.7647	1.7101	1.7768	1.7839	1.7722	1.8041	1.8341	1.8078	1.9001			1.3435													1.7175		1.5663
<u>-</u>	70 118.57 de .0000		148.7	87.00 0	0.77.7	1.7103	63.69	2007	1.7296	1.7348	1.7553	1.7419	1.7806	1.7843	1.8114	1.7830	1.8215	1.7784			1.2185												1.6414		1.6871	1.7348
TEST 0) PSI#2(TC/1)	ps ta FACTOR: 1.0	(PSI)	133.7	3776		1.7311	6152	1 6973	1.6888	1.7022	1.7362	1.7952	1.7809	1.797.1	1.7930	1.7643	1.7861	1.8314	(PSI)		1.0935										1.5998	1.6888	1.7695	1.8345	1.7986	1.8069
T2 PRESSURE TEST IN PSI#1(PR/10) P	PO 14.76 P SCALE F	BODY PRESSURES	118.7	2 2205		1.7348	. 6147	1.6816	1.7230	1.7084	1.7689	1.7806	1.7529	1.7931	1.7933	1.7914	1.8797	1.8285	WING PRESSURES		0.9685								0.7037		1.8041	1.7974	1.8396	1.8225	1.8206	1.8061
TUNNEL CONFIGURATION	88.74 deg Averaged data	80	103.7	20,000		.7411	A 285	4208	7072	. 7029	.7256	7810	. 7889	. 7869	. 7961	.8384	.8466	.8146	3		0.8435						1 6902	1.7569	0.7654	1.7548	1.7845	1.8087	1.8217	1.8449	1.8076	1.8202
PSI					•	•	90	200	28	31	91	25	99	1 62	96	39	52	8114			0.7185					77917	1.7341	1.7615	0.7653	1.7638	1.7705	1.8180	1.8195	1.8085	1.8132	1.8032
	deg pHI		theta: 88.7	2.5654	1.8898	1.7555	1.5509	1 7062	1,7128	1.7131	1.7316	1.7525	1.7766	1.8079	1.8296	1.8439	1.8352	1.81			r/d: 0.5935	-	67811	-	13/21 1.7087	0.27.1	1.7310	1.7392	7518,0.	1.7521		1.8169	1.8001	1.8062	1.8025	1.7972
WTR 1421 RUN 63	ALPH -0.11 deg		b/z) - +	2.0	2.5	0. c	. 4	4	4.5	4.8	5.0	5.5	0.9	6.5	7.0	7.5	8.0	,	1-2	p/z	_	875 1.	4 . 125	4.3/5 1.	4.023	5, 125		.625 1.	5.875			•	6.875	7.125	1.375

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42.1 64	2.0																																				
WIR1421 RUN 64	F MACH		163.9		2.0472.2.1013	1.7366, 1.7173	1.5701		1.3452	1.3630	1.3436	7.4 1.4	1.3822	1 7 7 7	1 5254	1.5622	1.5935	1.5688	1.8594		2425	. 0403													1470)	0.9850
. ;	T0 118.72 degF 1.0000		148.9		1.9948		1.5302	•	1.4562	1.4321	1.4409	1.4836	1.4943	1 5384	1.5457	1.5733	1.5390	1.5827	1.7214		40.00	000												0.9672	0.9467.0.9470	0.9270	7470
TEST (1C/1)	psta FACTOR: 1.	(PSI)	133.9		1.9700))	1.5638		3.5036	1.5252	1.0104	1 5440	1 5067	1.5701	1.5746	1.5646	1.5353	1.5519	1.6236	(PSI)	1 0035											0.8564	0.8966	0.8209	0.9497	0.8592	1011
12 PRESSURE TEST PSI#1(PR/10) P	14.76 SCALE	BODY PRESSURES (118.9		. 9540		.5760	07	2429	71817	57.18	6284	6221	5696	5855	5784	. 5707	. 6508	.6145	WING PRESSURES	7 9685									0,8038		0.8829	0.8095	0.7649	0.7959	0.9524	* **
TUNNEL PSI CONFIGURATION	P0	800					-	•	<u>-</u> -			- r	· -	. 	7	1.	-	-	•	NIX	0.8435							0.7489	0.7801	0.7167	0.6663	0.9425	1.1622	1.3570	1.4560	1.4965	1 5/86
PSI COM	88.94 deg Averaged data		103.9		1.938		1.6011	-	0.056.1	1.4.4	1.6317	1 6185	1.6529	1.6409	1.6027	1.6004	1.6403	1.6331	1.6196		0.7185		•			0.6846	0.6004	1.4552	1.1668	0.3632	1.4624	1.5005	1.5680	1.5742	1.5545	1.5842	1.5780
	1114			2.5552	1.8944	1.6932	1.6217	1.4669	1.5964	1.0904	1.6453	1.6353	1.6244	1.6352	1.6336	1.6469	1.6516	1.6323	1.6106		0.5935			0.6201	0.6378	0.6091	0.7430	.4473	4756	5424	5208		5949	5718	5733	5755	5841
	2 deg		theta																		r/d: 0.	*	8140+	Ö	.65841	ō.	Ö		-	.4982,0.	-		-	-	-	-	_
WIR 1421 RUN 64	4.92		p/z	6 O		•	2, 5											7.5			p/z	3.625 0	.875	4.125	•	•	•			٠	•	•	6.375	6.625	6.875	7.125	7.375
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	WTR 1421 RUN 65			TUNNEL PSI CONFIGURATION	TUNNEL IGURATION	12 PRESSURE TEST PSI#1(PR/10) P	1EST) PSI#2(TC/1)	(1/3		WTR 142 1 RUN 65	
=	96.6	бөр	PHI	88.44 deg Averaged data		PO 14.77 ps SCALE FA	psta FACTOR:	T0 118.79 dagF 1.0000		MACH 2	2.0
					BOC	BODY PRESSURES (PSI)	PSI)				
	p/z	theta:	88.4	103.4	-	118.4	133.4	148.4	163.4		
	0.5		2.2308								
	0.4		1.9600		•						
	- c		1.7202	1.7485	_	1.7224	1.6839	1.6903	- . '	9	
) i		1.00/2		•				1.4638, 1.4539	<u>o</u>	
	3.0		1.5449	1.5118	-	. 4300	1.3366	1.2447	1.2920		
			1.5993	1.5624		4529	. 8008	1 0783	9811		
			1 6745	1 4080	-	4477	1 36 14	20.0.1	0.00		
	· •		1 6485	1 5472	-	45.6	1.3466	1014	609		
	. 4		1 6093	ACOA 1	•	7356	. 3400	7300	0.8603		
	• •		1.505.1 1.5855	4004 -		1010	2000	1.2804	0.8239		
	9 C			FO04.	- •	4006		1,2629	0.7253		
			1.3631	1.5090	-	19/6	1.3841	1.2196	0.7458		
	u .		0896.1	1.5071	_	.3138	1.3338	1, 1821	0.9058		
	0.9		1.5465	1.4701		.3144	1.2859	1.1236	1.0675		
	6.5		1.5384	1.4708	-	. 3087	1.2346	1.1483	1.1583		
	7.0		1.5057	1.4967	-	. 3241	1.1938	1.1113	1.2183		
	7.5	•	1.4634	1.4678	_	. 4189	1.2153	1, 1612	1.3143		
	8.0		1.4215	1.4350	-	.3796	1.3949	1.6365	1.7570		
					3	WING PRESSURES	(PSI)				
	. 171	1 (d: 0	U			6					
		·	,	68.7.0	0.6433	0.9663	cse0.1	1.2185	1.3435		
	875	.2506+							•		
	4.125	0.1902	7								
	4.375 0.	.22891 0.2136	36			•					
		0.2518	80	0.2639							
	•	0.3037	7	0.2409							
		0.9920	0	1.0070	0.3123						
	•	1.0906	9	0.4472	0.3869			·			
	625	1443,0.1817	7	0.5982	0.3833	0.3845					
	5.875	1.1793	3	0.7166	0.4006						
	•			0.8300	0.3815	0.4992	0.4253				
	•	1.2708	8	0.9572	0.4671	0.4988					
	6.625	1.2502	2	1.0180	0.5839	0.5281	0.5431	0.5565			
		1.2577	7	1.0302	0.6801	0.4800	0.5823	O	5455.0.5269		
	7, 125	1.2597	7	1.0754	0.7371	0.4349	0.5483	C			
	7.375	1.3092	2	1.1269	0.8150	0.4777	0.5566		0.5978		
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	TUNNEL 12 PRESSURE TEST	R TEST	(4
PSI CONFIGURATION		/10) PSI#2(TC/1)	÷	RUN 66
88.98 deg AVERAGED DATA	PO 14.77 SCALE	psta FACTOR: ·	10 119.04 degF 1.0000	MACH
-	BODY PRESSURES	(PSI)		
104.0 9952	119.0	134.0	149.0	164.0
. 7890 . 6025 . 4991	1.5061	1.3334	1.2795	1.4281,1.4933
4805 1.3915 3701	1.2914	0,9850	0.7598	•
6017 1.3997	1.1960	0.9902	0.6049	0.6316
1.3981	1.0392	0.9302		0.1964
-	1.0240	0.8929	8115	0.2174
. ئىي	0.9190	0.8424		0.2380
<u>-</u> .	0.9307	0.8557	0.6410	0.1622
- •	0.9198	0.8/98		0.2905
5384 1.4490	0.8991	0.7919	0.5476	0.3974
	1 1116	0.703	//14/	0.4324
: - -	1.1488	0.6937		0.5855
-	1.1724	0.7491		0.7493
350 1.2543	1.0839	1.1073		1.3107
•	WING PRESSURES	(PSI)		
0.7185 0.8435	0 9685	1,0935	 	1 3435
	•		1	
	-			
0.1718				
0.2054				
5529 0.				
4529 0.				
5624 0.	0.3418	~		
.6324 0.				
	0.3747	0.3583		
0.7753 0.4499		3 0.4115		
8008		o	0.4033	
7825	1 3455		0.4268,0.3967	1967
8400				
0.7566 0.7426		9 0.3713	0.4266	

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2/d thete: 111.0 126.0 141.0 156.0 171.0 186.0 1.5 2.9937 2.2159 2.2366 2.2376 2.2289 2.2179,2.2636 2.0 1.8823 1.7376 1.7324 1.7306 1.7134 1.7288,1.8592 3.0 1.5423 1.7376 1.7324 1.7324 1.7326 1.7324 1.7326 4.0 1.705 1.7010 1.7210 1.6413 1.6413 1.6413 1.6321 1.7328 4.0 1.705 1.7010 1.7210 1.6412 1.6412 1.6412 1.6431 1.7328 4.0 1.705 1.7010 1.7021 1.6912 1.7230 1.7230 1.7230 4.0 1.7105 1.7010 1.7021 1.6912 1.7230 1.7230 1.7230 4.0 1.7105 1.7010 1.7021 1.7021 1.7026 1.7030 1.7030 5.0 1.7610 1.7021 1.7020 1.7020 1.7026 1.702	theta: 111.0 126.0 2.9997 2.5600 2.1698 1.8892 1.7583 1.7376 1.7105 1.7105 1.7105 1.7105 1.7105 1.7105 1.7105 1.7105 1.7105 1.7101 1.7101 1.7101 1.7101 1.7101 1.8094 1.7105 1.7105 1.8094 1.8106 1.8094 1.7105 1.7101 1.8094 1.7105 1.7101 1.8094 1.7105 1.7106 1.71	2.2366 1.7324 1.6124 1.6782 1.7210 1.7037 1.7693 1.7896 1.7899 1.7899 1.7899	156.0 2.2376 1.7306 1.6953 1.6953 1.6951 1.7308 1.7308 1.7948 1.7948 1.7957 1.7957	171.0 2.2289 1.7134 1.6267 1.7277 1.7326 1.7499 1.7364 1.7790 1.7786 1.7886 1.7886 1.7886 1.7886	186.0 2.2179,2.2636 1.8858,1.8592 1.7288 1.6371 1.7253 1.7023 1.7023 1.7726 1.7726 1.8007	
2 . 5600 2 . 2 . 1590 2 . 2 . 1590 3 . 2 . 2 159 4 . 1 . 1316 4 . 1 . 1316 4 . 1 . 1316 4 . 1 . 1316 4 . 1 . 1316 4 . 1 . 1316 4 . 1 . 1316 4 . 1 . 1316 4 . 1 . 1316 4 . 1 . 1316 4 . 1 . 1316 4 . 1 . 1317 4 . 1 . 1318 4 . 1 .	2.5600 2.1698 2.1698 1.7583 1.7376 1.6483 1.7055 1.7010 1.7105 1.7010 1.7105 1.7010 1.7107	2.2366 1.7324 1.6124 1.6782 1.7210 1.7210 1.7693 1.7693 1.7693 1.7899 1.7899 1.8834	2.2376 1.7306 1.6116 1.6953 1.6951 1.7308 1.7806 1.7937 1.7629	2.2289 1.7134 1.6267 1.6967 1.7277 1.7326 1.7364 1.7364 1.7886 1.816	2.2179,2.2636 1.8858,1.8592 1.7288 1.7253 1.7035 1.7023 1.7728 1.7726 1.7726 1.7726 1.8007	
1.7583 1.7376 1.7324 1.7306 1.7134 1.7288 1.7288 1.6360 1.6124 1.6116 1.6267 1.6371 1.7253 1.7253 1.7253 1.7253 1.7253 1.7253 1.7253 1.7253 1.7253 1.7254 1.7253 1.7254 1	1.7583 1.7376 1.5426 1.6360 1.7055 1.3898 1.7105 1.7010 1.7107 1.6999 1.7327 1.7269 1.7519 1.7814 1.7760 1.7902 1.8087 1.7960 1.8412 1.6673 1.8094 1.8126 1.6673 1.7262 1.73121 1.6964 1.7355 1.7261	1.7324 1.6124 1.6782 1.7210 1.7037 1.7693 1.7806 1.7906 1.7930 1.7899 1.8834	1.7306 1.6116 1.6953 1.6842 1.6951 1.7308 1.7948 1.7806 1.7937 1.7629	1. 7134 1. 6267 1. 6967 1. 7277 1. 7326 1. 7364 1. 7364 1. 7790 1. 7886 1. 7886 1. 7886 1. 7886	1, 7288 1, 6371 1, 7253 1, 7035 1, 7023 1, 7728 1, 7726 1, 7726 1, 8907 1, 8952	
1.6483 1.6360 1.6124 1.6116 1.6267 1.6567 1.7055 1.3898 1.6782 1.6953 1.6953 1.6967 1.7777 1.7105 1.6899 1.7210 1.6842 1.7277 1.7277 1.7277 1.7277 1.7277 1.7277 1.7277 1.7277 1.7277 1.7277 1.7277 1.7277 1.7277 1.7277 1.7277 1.7269 1	1.6483 1.6360 1.7055 1.3898 1.7105 1.7010 1.7105 1.7010 1.7105 1.7010 1.7105 1.7010 1.7105 1.7010 1.7107 1.7010 1.8087 1.7010 1.8126 1.6673 1.6925 1.7262 1.7355 1.7262 1.7355 1.7262 1.7355	1.6124 1.6782 1.7210 1.7037 1.7693 1.7806 1.7917 1.7930 1.7899 1.8834	1.6116 1.6953 1.6951 1.7308 1.7308 1.7806 1.7937 1.7957 1.7629	1.6267 1.6967 1.7277 1.7326 1.7364 1.7364 1.7886 1.8166	1. 637 1 1. 7253 1. 7035 1. 7023 1. 7728 1. 7726 1. 7726 1. 8007	
1.7055 1.3898 1.6782 1.6953 1.6967 1.77	1.7055 1.3898 1.7105 1.7010 1.7105 1.7010 1.7107 1.6999 1.7519 1.7252 1.7519 1.7814 1.7519 1.7816 1.8087 1.7902 1.8087 1.7902 1.8126 1.6673 1.8094 1.8126 1.6633 1.6925 1.73121 1.6964 1.7355 1.7261 1.7262 1.7250	1.6782 1.7210 1.7210 1.7693 1.7806 1.7906 1.7930 1.7899 1.8834	1.6953 1.6842 1.6951 1.7308 1.7806 1.7937 1.7957 1.7629	1. 6967 1. 7277 1. 7326 1. 7326 1. 7364 1. 7386 1. 7886 1. 8152	1,7253 1,7035 1,7023 1,7728 1,7726 1,7726 1,8007	
1.710	1,7127 1,6999 1,7127 1,6999 1,7337 1,725,9 1,7519 1,7814 1,7760 1,7902 1,8087 1,7860 1,8087 1,7969 1,8126 1,8126 1,6673 1,6925 1,73121 1,6964 1,7355 1,7261 1,7261	1.7210 1.7037 1.7693 1.7806 1.7906 1.7930 1.7899 1.8834	1.6951 1.6951 1.7308 1.7948 1.7937 1.7937 1.7957	1,727,7326 1,7399 1,7364 1,7364 1,7886 1,816 1,8286	1,7035 1,7023 1,7728 1,7726 1,7726 1,8007	
1.757	1. 7337 1. 7252 1. 7519 1. 7814 1. 7760 1. 7902 1. 8087 1. 7968 1. 8324 1. 7958 1. 8476 1. 8476 1. 8476 1. 8673 1. 6673 1. 73121 1. 6925 1. 73121 1. 6925 1. 7355 1. 73697 1. 7355 1. 73697 1. 7250	1.7693 1.7806 1.7517 1.7906 1.7899 1.8834	1.7308 1.7948 1.7806 1.7937 1.7957 1.7629	1,7499 1,7364 1,7790 1,7886 1,816 1,8286	1.7023 1.7728 1.7796 1.7726 1.8007	
1.750	r/d: 0.5935	1.7806 1.7517 1.7906 1.7899 1.8834	1.7948 1.7806 1.7937 1.7957 1.7629 1.7899	1,7364 1,7790 1,7886 1,816 1,8286	1,7728 1,7796 1,7726 1,8007	
1.750	r/d: 0.5935	1.7517 1.7906 1.7930 1.7899 1.8834	1.7806 1.7937 1.7957 1.7629 1.7899	1,7790 1,7886 1,8152 1,7816	1,7796 1,7726 1,8007 1,8352	
1.808	r/d: 0.5935	1.7906 1.7930 1.7899 1.8834 1.8318	1.7937 1.7957 1.7629 1.7899	1,7886 1,8152 1,7816 1,8286	1,7726 1,8007 1,8352	
r/d: 0.5935	r/d: 0.5935 0.7185 1.6673+ 1.6633+ 1.73121 1.6925 1.73697 1.73697 1.73697 1.7355 1.7262 1.7260 1.7261	1.7899 1.8834 1.8318	1.7629	1.8286	1.8352	
F/d: 0.5935	r/d: 0.5935	1.8318	1.7899	1.8286		
1.8094 1.8126 1.8318 1.8350 1.7838 1.818	r/d: 0.5935 0.7185 1.6673+ 1.6633+ 1.7312! 1.6925 1.7321 1.6964 1.7355 1.7262 1.7250 1.7263 1.7250	1.8318	0100))!!	1.814	
F/d: 0.5935 0.7185 0.8435 0.9685 1.0935 1.2185 6673* 66673* 66634 1.6925 1.7362 1.7250 1.7262 1.7250 1.7263 1.7250 1.7270 1.7261 1.6710 1.7308 1.7535 1.7429 1.7507,0.7740 0.7583 0.6576 1.7453 1.7578 1.7494 1.8001 1.5510 1.7946 1.8213 1.8251 1.8486 1.7530 1.8050 1.8050 1.8120 1.8120 1.813 1.6625	r/d: 0.5935 0.7185 6673+ 6633+ 1.6925 73121 1.6964 1.7355 1.7697 1.7260		1.8350	1.7838	1.8863	
r/d: 0.5935 0.7185 0.8435 0.9685 1.0935 1.2185 .6633+ .6633+ .6633+ .6633+ .6633+ .6633+ .6633+ .6635+ .6635+ .6637+	.6673+ .6673+ .6633+ .73121 1.6925 .73121 1.6964 1.7355 1.7262 1.7250 1.7230 1.7261	WING PRESSURES				
1. 6673+ 1. 6634+ 1. 6925 1. 73121 1. 6964 1. 7320 1. 7250 1. 7250 1. 7250 1. 7250 1. 7507 0. 7740 1. 8216 1. 8213 1. 8251 1. 8361 1. 6520, 1. 7029 1. 8057 1. 8050 1. 8120 1. 8110 1. 8113 1. 6625	1.6673+ 1.6633+ 1.6925 1.73121 1.6964 1.7262 1.1.6697 1.1.6697		1.0935	1.2185	1.3435	
1.6925 1.7355 1.7262 1.7250 1.7203 1.7250 1.7308 1.7535 1.7453 1.7429 1.7453 1.7453 1.7453 1.7459 1.7453 1.7459 1.7453 1.7454 1.7454 1.7796 1.8216 1.8219 1.8213 1.8251 1.8057 1.6434 1.8057 1.8251 1.8050 1.8120 1.8120 1.81361 1.8120 1.8130 1.8130 1.6134	. 6925 . 73121 1. 6964 1. 7262 1. 1. 6697 1. 1. 17330 1.	·.				
1.73121 1.6964 1.7262 1.7250 1.7230 1.7251 1.6710 1.7308 1.7535 1.7429 1.7507,0.7740 0.7637 0.7583 0.6576 1.7507,0.7740 1.7578 1.7796 1.8001 1.5510 1.8216 1.8219 1.8251 1.8027 1.6434 1.7946 1.8213 1.8251 1.8186 1.7530 1.6104 1.8057 1.8005 1.8365 1.8351 1.6240,1.7029 1.8050 1.8209 1.8120 1.8180 1.8113 1.6625	1,73121 1,6964 1,7262 1, 1,6697 1,	•				
1.7262 1.7355 1.6697 1.7250 1.7308 1.751 1.7308 1.7535 1.7507,0,7740 0.7637 0.7637 0.7583 0.7583 0.6576 1.7453 1.7504 1.7564 1.7796 1.8216 1.8213 1.8251 1.8486 1.7530 1.6104 1.8057 1.8251 1.8050 1.8120 1.8130 1.6225 1.81313 1.6625	1. 7262 1. 1. 6697 1. 1. 7230 1.					
1.7507, 0.7740 1.7578 1.6710 1.7507, 0.7740 0.7637 0.7583 0.6576 1.7507, 0.7740 0.7637 0.7583 0.6576 1.7507, 0.7740 1.7578 1.7796 1.8001 1.5510 1.8216 1.8219 1.8027 1.6104 1.8057 1.8251 1.8180 1.6104 1.8050 1.8259 1.8120 1.81361 1.6240, 1.7029 1.8050 1.8209 1.8120 1.8180 1.8113 1.6625	1.6697 1.7230					
1.7507 0.7740 0.7637 0.7583 0.6576 1.7507 0.7740 0.7637 0.7583 0.6576 1.7453 1.7504 1.7794 1.8001 1.5510 1.8216 1.8249 1.8151 1.8027 1.6434 1.7946 1.8251 1.8251 1.6104 1.8057 1.8256 1.8256 1.8351 1.8050 1.8209 1.8120 1.8130 1.6226 1.8050 1.8120 1.8180 1.8131 1.6625	1.7230 1.					
1.7508 1.7535 1.7429 1.7507,0.7740 0.7637 0.7583 0.6576 1.7453 1.7578 1.7794 1.8216 1.8216 1.8210 1.7946 1.8251 1.8486 1.8057 1.8251 1.6104 1.8057 1.8251 1.6225 1.8050 1.8120 1.8180 1.6104	1 1200	. 6710	•			
1.7507,0.7740 0.7637 0.7583 0.6576 1.7453 1.7578 1.7794 1.8001 1.5510 1.8216 1.8249 1.8151 1.8027 1.6434 1.7946 1.8251 1.8486 1.7530 1.6104 1.8057 1.8005 1.8365 1.8225 1.8361 1.6240,1.7029 1.8050 1.8209 1.8120 1.8180 1.8113 1.6625	1.1308					
1.7453 1.7578 1.7494 1.864 1.7796 1.8001 1.5510 1.8216 1.8249 1.8151 1.8027 1.6434 1.7946 1.8213 1.8251 1.8486 1.7530 1.6104 1.8057 1.8005 1.8365 1.8255 1.8351 1.6240,1.7029 1.8050 1.8209 1.8180 1.8113 1.6625	1.7507,0.7740 0.7637					
1.7664 1.7796 1.8001 1.5510 1.8216 1.8249 1.8105 1.8027 1.6434 1.7946 1.8213 1.8251 1.8486 1.7530 1.6104 1.8057 1.8005 1.8365 1.8225 1.8361 1.6240,1.7029 1.8050 1.8209 1.8120 1.8180 1.8113 1.6625	1.7453 1.					
1.8216 1.8249 1.8105 1.8027 1.6434 1.7946 1.8213 1.8251 1.8486 1.7530 1.6104 1.8057 1.8005 1.8365 1.8225 1.8361 1.6240,1.7029 1.8050 1.8209 1.8180 1.8113 1.6625	<u>-</u>	_	1.5510			
1.7946 1.8213 1.8251 1.8486 1.7530 1.6104 1.8057 1.8005 1.8365 1.8225 1.8361 1.6240,1.7029 1.8050 1.8209 1.8120 1.8180 1.8113 1.6625	1.8216 1.	-	1.6434			
1.8057 1.8005 1.8365 1.8225 1.8361 1.6240,1.7029 1.8050 1.8209 1.8120 1.8180 1.8113 1.6625	1.7946 1.	-	1.7530	1.6104		
1.8050 1.8209 1.8120 1.8180 1.8113 1.6625	1.8057 1.	-	1.8361	•	•	
	1.8050 1.	<u>-</u>	1.8113	1.6625		

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WTR1421 RUN 68	сн 2.0			co •	-																											
	F MACH		187.2	2.1838,2.0208	1.8326, 1.6621 1.6544	1.3819	1.4007	1.3710	1.4331	1.3908	1.4749	1.5169	1.5386	1.6108	1.5935	1.8709		1.3435												•	1.0072	
	. 119.66 degF 00		172.2	2.0933	1.5609	1,4505	1.4190	1.4239	1.4607	1.4761	1.4715	1.5402	1.5526	1 5529	1.6111	1.7224		1.2185											1	0.9927	0.9876,1	
ESI PS1#2(TC/1)	ps 1a TO FACTOR: 1.0000	(PSI)	157.2	2.0329	1.5627	4557	.4733	1.4587	1.4603	1.5104	1.5777	1.5678	1.5746	1.304	1.5651	1.6329	(PSI)	1.0935										0.8854	0.9054	0.8890	0.9237	
12 PRESSURE TEST PSI#1(PR/10) P	14.78 SCALE	BODY PRESSURES (P	142.2	. 9870	.5552	7800	5331	5766	5344	6034	6022	5574	5828	19/81	6548	6240	WING PRESSURES (PSI)	0.9685					•			0.8173	1	0.8740	0.8090	0.7971	0.6865	,
TUNNEL PSI CONFIGURATION	DATA PO	BODY		.9490	-	7 7	<u> </u>	-	1.	5958 1.	.6325 1.	6181	5900	5901	6178	-	¥1.	0.8435						0.7583	0.7882	0.726	0.6525	0.7315	0.9584	1.2122	1.3684	
PSI CO	112.21 deg Averaged data		127.2	-	-	-		•	-	<u>-</u>	_	-	<u>.</u> .	- •		-		0.7185				7	0.7263	1 4454	1.0215	0.2624	1.4156	1.4914	1.5822	1.5892	1.5775	
	IHd		theta: 112.2	2.5803 2.2119 1.8989	1,6952	1.4473	1.0996	1 6734	1.6372	1.6291	1.6176	1,6269	1.6270	1.6440	1.6466	1.5955		0.5935	96+	+	_	101 0.6928	0.6479	1.0253	1.4604	Ö			1.6053	1.5800	1.5893	
WIR 1421 RUN 68	4.93 deg			0.5 0.5 5	2.0) () () () ()	n (. 4 	. 4		5.0	•				0.8		z/d r/d:	3.625 0.8796	3.875 0.8644	125	4.375 0.70101	4.625	4.8/3	5,375	5,625 1,5368	875	6, 125	6.375	6.625	6 875	
	LPH																															

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· -	WTR 1421 RUN 69			PSI CI	TUNNEL PSI CONFIGURATION	L 12 PRESSURE TEST ON PSI#1(PR/10) P	E TEST 10) PSI#2(TC/1)	(2/1)		WIR1421 RUN 69	21
-	9.94	geb	РНІ	111.83 deg Averaged data	g DATA	PO 14.77 SCALE	PS IS FACTOR:	T0 120.15 degf 1.0000	legf		2.0
					Š.	BODY PRESSURES	(PSI)				
	p/z	theta:	111.8	126.8	€.	141.8	4. 0.		•		
	0 4 0		2.2374)	9.	B	186.8		
			1.7009	1.7074	27.4	1.6962	1.7372	6650			
			1.5562					. 6353	2.0493,1	. 7 148	
	3.0		1.5039	1.4	4138	1.2952	1.2572	1.2877	1.68/0.1	. 3928	
			1 5375	4 46	46.40	:			•		
			0.55.1		043	1.2531	1.0500	1.0304	1.0889		
	4		1.07.0		. 5949	1.3385	.1.0863	1.0019			
			5555	4.1	.4711	1.3895	1.1448	1.0485	1 0067		
			1.4/4/	1.48	. 4301	1.3470	1.2146	1.1096	0 9601		
			1.4449	1.4143	43	1.4099	1.3090	1.1786	0.5354		
			1.4104	1.4435	135	1.4139	1.3970	1.2209	20.00		
			1.3939	1.4108	108	1.3820	1.4002	1,3015	0.00.0 ROBE		
	٠		1.3695	1.3616	916	1.4071	1.3935	1.0581	0.000		
	0 6		1.3563	1.35	3532	1.3875	1.3604	1.2433	4.0413		
	•		1.3369	1.39	3923	1.3577	1.3065	1.1768			
	n c		1.2829	1.37	3713	1.4248	1.3189	1.2578	2464		
	•		1.2682	1.28	2864	1.3868	1.4021	1.5577	1.7530		
					*	WING PRESSURES	(PSI)				
	J 6/z	r/d. 0 5938	ц								
С	625	; •	,	•	0.8435	0.9685	1.0935	5 1.2185	1.3435	10	
9	.875	0.3047+									
4	. 125	0.2729	6								
4	.375 0	.29121 0.295	51								
	.625	0.3031		0.3250							
₹	.875	0.2949				•					
S)	. 125	0.6742			A505 0						
ស	•	0.7770			0.3526					•	
ומו	•	572,0			0.3449	1766 0					
ម (•	1.0305		0.3869	0.3551						
۰ م	•			0.4926	0.3543	0.4111	7 7 6 6 7	-			
	•	1.2028		0.6412	0.3630	0 4014	0.4004				
(.625	1.2076			0.3533	0.4488	0.4867				
0 1	.875	1.2267		0.7817	0.3929	0.4391	4360		!		
- 1	. 125	1.2410			0.4331	0.4346	0.1300		. /01/		
•	. 375	1.2740		0.9511	0.5144	0.4608	0.4753	0.4608	0		
							•		0.6632		

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- =	WTR1421 RUN 70 14.97	бөр	PHI	PSI CONFI	TUNNEL URATION PO	~ \	SI#2(T	/1) T0119.80_degF	WTR1421 . RUN 70 3F MACH	121 70 2.0
				AVERAGED DATA	rA BODY	SCALE PRESSURES	FACTOR: 1	1.0000		
	2/d. 0.5	theta:	112.5	127.5	14,	142.5	157.5	172.5	187.5	·
	c c		1.4248	1.4235	- 0	1.3223	1.3420	1.5417	1.8839, 1.3209	
	2 0 0 0 0 5		1.2620		7.0	0.86/0	0.7971	0.9803	1.3149 O 9483	
			1.3080	1.5728	8.0	0.9239	0.8290			
			1.2113	0.6507	6.0	. 6906	1.0129	0.9073	0.4824	
			1.1164	0.8050		.0349	1.1568	0.8634	0.3021	
	9 9 9		1.0872	1.0343		.0636	1.0333	0.7525	0.4142	
			1.0966	1.0809		.0558	0.9983 0.9288	0.6898	0.4581 0.5083	
	7.5		1.0205 0.9538	1.0780	- 0.	.0182	0.9030 1.0438	0.6175 1.3738	0.7459	
					NIX	WING PRESSURES	(PSI)			
<u></u>	2/d .625	r/d: 0.5935 0.2277*	ž.	0.7185	0.8435	0.9685	1.0935	1.2185	1.3435	
7 4	0	. 20257 0. 1262 . 13311 0. 1505	22.05							
₹ '	,		88	0.1702						
4 R	. 875	0.1494	Ā rū	0.1346 0.3638	0.1586					
S	375	7320		0.1597	0.1989					
ıΩ		.0	1 2	0.2493	0. 1962	- 66	•			
ဖ	. 125				0.2001	0.2465	0.2351			
	.375	0.6216	9-	. 4035	0.2154	0.2438	0.2757	•		
ຜ່ ທ	625	0.5793	<u>ლ</u> (0.4583	0.2279	0.2864	0.2530	0,3358		
) r	. 125	0.569	5 Z	0.5041	0.2543	0.2765	0.2813	0.3409,0.	,0.4790	
7	375	0.6999	. <u>6</u>		0.3192	0.3618	0.3609	0.3602	0.3685	

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21	2.0																											
WTR142 RUN 7	MACH		.2566	. 8546													EC .											
	0. ا	209.4	. 2306	1.7323	1.6308	1.7210	1.6987	1.7048	1.7785	1.7799	1.8014	1.8384	1.8198	1.8933			1,3435	ı										
2	T0 120.47 degF .0000	194.4	2.2328	1.7161	1.6235	1.6914	1.7293	1.7493	1.7364	1.7815	1.8125	1.7822	1.8380	٠			1.2185											
3Y IEST) PSI#2(TC/1)	psta FACTOR: 1.0	179.4	2.2399	1.7338	. 6082	1.6981	. 6939	1.7266	7956	7981	.7919	. 7603	. 7975	91 40	(PS1)		1.0935									1 5215		1.6051
AK LABORATORY 2 PRESSURE TES PSI#1(PR/10)	14.77 ps SCALE FAC		195 2	7325	6103	6764	7008	7669	10	22	75	90	32	7	PRESSURES	•	0.9685	•							0.6297	1, 7968	****	1.8000
0 -	PO		2.2395	1.73	1.61	1.6764	1.70	1.76	1.7801	1.7938	1.7975	1.7906	1.8932	20.	MING		8435						6448	. 7391	7640	7774		.8082
WHITE TUNNEL PSI CONFIGURATION	34.39 deg Averagel data	149.4	2.2222	1.7373	1.6350	1.5623	1.6964	1.7233	1.7814	1.7850	1.7978	1.8450	1.8481	07.0.			0.7185 0				7353	. 7252	7318		75.10		•	8 195
	PHI 134	134.4 3.0004	2.5624 2.1710 1.8899	1.7560	1.6496	1.7031	1.7135	1.7346	1.7525 1.7783	1.8108	1.8374	1.8498	1.8095)					~	47		-	-	-	s -			-
	б е р	theta:															r/d: 0.5935	.6641•	1.6812	73141	-	1.6436	1.7286	_ ;	1314,0.7418	:		1.8191
WIR1421 RUN 71	-0.08	z/d 0.5	6 0 is 0	3.0	3.5	4 4 0 6	4.5	4 i	ດ ເກ ວ ເກ	0.9	6.5	7.0	6.0					3.625 1.		-		4.875	5, 125	•	-	6. 125		6.375
	ALPH																A-	-31	ľ									

WHITE OAK LABORATORY

421 72	2.0					•																														
W1R1421 RUN 72	F MACH		209.0		2,3429,1,9880	· –			1.4804	1.5065	1.4/2/	1.4812	1.5567	1.5746	1.5959	1.6290	1.6708	1.6609	1,8965		1.3435)								•				. 1834		1 0554
	10 120.68 degf.		194.0		2.2378	i i	1.6601		1.4988	1.4846	1.5049	1.5117	1.4995	1.5768	1.5939	1.6276	1.5993	1.6644	1.7194		1.2185	1											1.0567	٦.	1.0121	1 0157
) PS1#2(TC/1)	psia 1 FACTOR: 1.0	(PSI)	0.671		2.1509		1.6082	•	1.4664	1.483/	1.4468	1.4970	1.5713	1.5789	1.5924	1.5860	1.5617	1.6006	1.643/	(PSI)	1.0935										0.9791	1.0295	1.0068	0.9976	0.8738	7707
PS1#1(PR/10) P	14.78 ps	BODY PRESSURES (1	164.0		2.0732	•	. 5664		4619	4903 5256	4958	5755	5843	5603	5854	. 5901	. 58 16	0989	. 6352	WING PRESSURES (0.9685								0.9521		0.9689	C.8418	0.8123	0.7684	0.8628	()
CONF I GURAT I ON	PO NATA	80DY					-	•	<u>.</u>				-	-	-	-	-	-	-	NIN	0.8435						0 8944	0.9015	0.7744	0.7147	0.8576	1.0857	1.3601	1.5309	1.6271	0000
PSI CON	134.04 deg AVERAGED DATA		149.0		2.0034		1.5749		1.5202	1 5744	1.5644	1.5692	1.6170	1.6231	1.5977	1.6014	1.6495	1.6436	1.622		0.7185					0.8505	1 5324	1.2381	0.4586	1.5635	1.5873	1.6713	1.6701	1.6629	1.6862	
	PHI			2.6512	1.9217	1.7047	1.5975	1.4447	1.5591		1.6123	1.6121	1.6067	1.6236	1.6408	1.6577	1.6640	1.0328	1.0138		. 5935			0.8091	0.8245	0.7661	5260	5343	5913	5684		6239	6303	6513	6546	
,2	91 deg		theta:		·	•							•								0		1.1604+		0.82811 0	o c	-	-	1.6154.0.	-		-	_	•	•	•
RUN 7	LPH 4.9		2/d	s -	. .	2.0	2.5	e e e	n 4	. 4	4	4.8	5.0	5.5	0.9	6.5	0 6	0.0			p/z	3.625	3.875		375	4.625	5.125	5.375	•	5.875	•	•		6.875	•	7 275

WHITE DAK LABORATOR

	WIR 1421 RUN 73			PSI	TUNNEL PSI CONFIGURATION		12 PRESSURE TEST PSI#1(PR/10) P	TEST 0) PSI#2(TC/1)	0/0		WTR 142 1 RUN 73	- 6
LPI	66 ' 6	deg	H H	134.30 deg Averaged data	deg ED DATA	PO	14.78 P	psta FACTOR:	10 120.82 1.0000	degf	MACH	2.0
						ВООУ	BODY PRESSURES (PSI)	(PSI)				
	p/z	theta:	134.3	4	149.3	164.3		179.3	194.3	209.3		
	s 0 -		2.2840									
			1.6565	-	1.7143	1.7	1.7888	1.9466	2, 1528	2 4067	1 7417	
	2.0		1.4924			•	!		0	1.9949.1		
	2.5		1.3956		.3015	1.2	. 2692	1.3608	1.5087	1.7580		
	3.0		1.2834				•	_				
			1.4219	_	.2370	0.1		1.0989	1.2420	1.3410		
	4.0		1.5016	-	. 5396	0.1	.0477	1.0483	1.1955	1.3599		
	4.3		1.4867	-	.3661	-	. 1038	1.0120	1.2088	1.3019		
			1.4489	<u>-</u>	.3411	-	. 1322	0.9946	1.2263	1.3184		
	•		1.4464	<u>-</u>	.3507	1.2	2627	1.0455	1.2317	1.2301		
			1.4333	-	4078	E.1	3159	1.1607	1.2127	1.2549	•	
	5.5		1.4074	_	4 195	£.1	3325	1.3132	1.3213	1,2151	•	
			1.4045	+	.3954	-	3687	1.3806	1.4015	1, 1822		
			1.4203	-	3805	. .	.3550	1.3962	1.4425	1,2210		
			1.4261	_	.4107	E	. 3399	1.3712	1.3976	1.3025		
	7.5		1.3998	_	.3961	4.1	4379	1.4159	1.4750	1.3439		
	8.0		1,3833	- :	3983	E	.3869	1.4020	1,5669	1.8258		
						5N 1 3	WING PRESSURES	(RSI)				
	ı p/z	r/d: 0.5935	35	0.7185	C	0.8435	0.9685	1 0935	1 2187	1 3435	ĸ.	
	3.625 0.	0.5462+								•	•	
	0	.5260+										
	4.125	0.5231	31									
	4.375 0.	53321 0.5423	423									
	4.625	0.5302	02	0.5617								
	4.875	0.5944	77	0.5210								
		0.9282	82	0.9442	Ö	6013						
		0.9500	8	0.5052	Ö	5781						
	625 1	.4822,0.0038	38	0.4601	0	5410	0.6713					
	5.875	1.0206	90	0.4140		5472				-		
				0.4522	Ö	5347	0.5997	0.6411	_			
	•	1, 1785	85	0.5580	o.	0.5366	0.5873	0.7134	-			
	6.625	1.2337	37	0.6382	Ö	5327	0.6325	0.6804	0.6833	_		
	6.875	1.2836	36	0.6618	0	5186	0.6102	0.6397		0.7033,0.9342		
	٠	1.3295	95	0.7490	Ö	4397	0.5881	0.5888				
	7.375	1.3560	60	0.8675	0	4289	0.5819	0.5981		0.7018	8	

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WTR1421 RUN 74	MACH 2.0		209. 1	2.5034,1.4612	2.0531,1.2421 1.7923	3613	1.3793	1.2724	0.9602	0.9022	0.7317	0.6590	0.6131	0.6605	0.8/46 1.4578		1.3435												2	
(1)	10 121.05 degF 1.0000		194.1 209	2.0663 2.9	1.4005			1.1307 1.3							1.1409 0.1		1.2185											0.4549	0.4658,0.6772	
12 FRESSURE TEST PSI#1(FR/10) PSI#2(1C/1)	14,79 psta SCALE FACTOR:	BODY PRESSURES (PSI)	179.1	1.6914	1, 1166			0.7517				1.1754	1.1652	- 1	1, 1505	WING PRESSURES (PSI)	0.9685 1.0935							0.4868	>		0.3740 0.4985	0	0.3769 0.4522	
TUNNEL 12 P PSI COMFIGURATION PSI	34.13 deg PU AVERAGED DATA	BODY PRE	149.1 164.1	1,3243 1,4265	0.8470 0.8832			0.8695 0.8636 0.9079 0.9034				-		1.1423 1.0467	1.2279 1.2188	WING PR	0.8435						0.4245	0.4123	0.3728	0.3709	0.3624	0.3690	. 38 13	
PSI	PHI 134, 13 AVERAC		1.9272	1.036		.0902	. 8550	. 8003 7308	7121	.7558	. 9441	.0684	. 1996	1958	. 207		0.5935 0.7185		0.3819	0.4029	0	0.4167 0.3812	o o	ò	6829 0.	0.	. 7849		o.	
WTR 142 1 RUN 74	14.97 deg) 10 C								6.5		8.0		z/d r/d:	3.625.0.4318*	. 125	.375 0.39931	. 625	.875	. 125	1.4779.	875	. 125	6.375 0	.625	.875	

WILLE DAK LABORATORY

42.1 75	2.0																																					
WTR1421 RUN 75	gF MACH		232.4		2.2411.2.2507	-			1.6308	1.7185	1.6923	1.7594	1.7049	1.7834	1.7789	1.7670	1.8006	1.8408	1.8173	1.8980		3435	7												٠	.1.6850		1.5251
. 0.	10 120.91 degF .0000		217.4		2.2440)	1.7184		1.6185	1.6869	1.7246	1.727.1	1.7501	1.7406	1.7824	1.7854	1.8145	1.7809	1.8371	1.7789		1 21						•							1.5852	1.5946,1	1.6320	1.6809
E 1EST 10) PSI#2(1C/1)	psta FACTOR: 1.	(PSI)	202.4		2.2451		1.7357		1.6042	1.6887	1.6791	1.6919	1.7272	1.7989	1.7860	1.7982	1.7939	1.7609	1.7993	1.8298	s (PSI)	1 0935			•								1.5183	1.6003	1.7008	1.8130	1.8129	1.8245
L 12 PRESSURE TEST ON PSI#1(PR/10) P	PO 14.77 SCALE	BODY PRESSURES	.87.4		2.2373		1.7351		1.6073	1.6737	1.7191	1.7007	1.7659	1.7815	1.7520	1.7965	1.7967	1.7909	1.9030	1.8266	WING PRESSURES	0 9685			•		•				0.6138		-	1.7960	-	-	-	1.8351
TUNNEL PSI CONFIGURATION	57.40 deg AVERAGED DATA		172.4		2.2201		1,7351		1.6298	1.5120	1.6974	1.6934	1.7191	1.7817	1.7942	1.7890	1.7988	1.8497	1.8567	1.8132		0.8435					•		-		Ö	-	-	-	-		-	1.8410
ă.	PHI 157.40 AVER		7.4	2.9992 2.5612	2.1702	1.8906	. 7546	5480	. 6461	. 7021	7045	7095	7316	7514	7803	.8110	.8390	. 8535	8334	8 100		0.7185					1.7259	1.7197	1.7295	1.7581	0.7615	1.7487	1.7613	1.8173	1.8176	1.8056	1.8224	1.8171
	deg		theta: 157	n n	2.	-	-	-	_	-	_	-	-	÷	<u>-</u>	<u>-</u>	-	-	-	-		r/d: 0.5935	*	.6544+	1.6743	72151 1.6779	1.7211	1.6357	1.7266	1.7353	•	1.7355		1.8166	1.7896	1.8119	•	1.8151
WTR1421 RUN 75	ALPH -0.09		_	s 0	1.5	2.0	2.5	3.0	3.5	4.0		4.5				0.9	6.5	7.0	7.5	8.0		1 p/z	-	-	4.125	4.375 1.	4.625	4.875	5. 125	.375	. 625	5.875	6. 125	6.375	6.625	6.875	12	7.375
	٧٢																																					

421 /6	~																																				
WTH1421 RIN 76	MACH				0880			c	· ·	- c	o uz	: m		, r	· LO	ť	7	ıcı				. 3435															1.1750
	Seqf		232.3		2 4832	2 0883	1 8854	1 6 130	0610.1	1 6060	1.6686	1.6053	1.6840	1.6845	1.6765	1.7086	1.7512	1.7415	1.9120			-													1.3469		-
2	1(1 (2) R5 degl (((kg)		211.3		2 3963		1 7841	1 5836	1 5827	1.5881	1.6132	1.6155	1.5986	1.6469	1.6558	1.6916	1.6599	1.7284	1.7345			1.2185												1, 1853	1, 1923,	1.1457	1.0891
0150 01 PS1#200	psta tactor	PS1)	202.3		2 3025		1,7190	1,5236	1.5521	1.5327	1.5226	1.5634	1.6256	1.6225	1.6320	1.6323	1.6077	1.6435	1.6647	(PSI)		1.0935								•		1.1437	1.1999	1.1458	1,1085	1.0555	1.0689
12 PRESSURE (FS) A PSI PER (O) P	PO 14 27 pr	RODY PRESSURES (PS1)	187.3		2001		1 6475	4859	5218	. 5586	5141	. 5903	. 5982	.5784	. 609 1	.6172	.6112	7234	.6570	WING PRESSURES		0.9083			,					0.1330		1.0829	1.0373	1.1202	1.2146	1.3985	1.6277
TORRESTORATION	N 1 A	ROF	~		11 2			18	-	14	25	02	75 (6		-	52	4	-	3	9779	0.8430						1.0613	1.0501	0.0619	1.1483	1.4625	1.7008	1.8012	1.8251	1.7902	1.8027
100 15 ₄	152 31 deq AVERAGED DATA		112		2 0987		1 6012	1 5078	1,5041	1.5474	1.5325	1.5520	1.6075	1,6319	1.6115	1.6171	1.6755	1.6774	1.6564		2847			-		1.0633	1.1897	1.6462	1.7003	0.7334	1.6985	1.7011	1.7489	1.7446	1.7343	1.7514	1.7424
	Ŧ.		15.7	2 1489	1 9849	1 7383	1 4268	1 5267	1.5807	1.5896	1.5807	1.5901	1.5940	1.6391	1.6559	1.6858	1969.1	1.6/43	1.6484		5935)		.0397	1.0519	. 1942	.0571	6418	6554	394	183	į	7330	. 7065	7327	7259	200
F 3	as deap		t in the																		r/d: 0.50	.5865*	.5817+	1.0	.04521 1.0	1.15	- 0.	1.6	0	.6994,0.6894	1.6		•	•	•	1.72	7
10 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	=		D/2			C 4							נית נית	ກິບ) - ^	? 6			۶/۵	-	875 1	4.125	4.375 1	4.625	4.875	5.125		5.625 1	5.875	6.125	6.3/3	6.625	0.8/D	7 375	5
	A 174																																				

WHITE DAK LABORATORY

WTR1421 RUN 77	СН 2.0				7	ž																												
	gF .MACH		231.4		-	.3057	2.0662	1 6584	1.6717	1.6256	1.6617	1.5943	1.6657	1.6522	1.6160	1.6331	1.6623	1.9517		1.3435													. 1058	
2	T0 121.65 degF 1.0000		216.4		2.5339		1.8293	1 5300	1.4857	1.4797	1.5010	1.4895	1.4583	1.5115	1.5175	1.5475	1.5258	1.7190		1.2185												1.0094	1.0168, 1.1058	A799 O
1EST 0) PSI#2(TC/1)	psta FACTOR: 1.0	(PSI)	201.4		2.2937		1.6292	1 3430	1.3022	1.2615	1.2345	1.2606	1.3174	1.3056	1.3153	1.3419	1.3809	1.3921	(PSI)	1.0935										0.9938	1.0616	1.0375	1.0166	7 9867
T2 PRESSURE TO PSI#1(PR/10)	PO 14.78 p SCALE F	BODY PRESSURES	186.4		2.0535		1.4391	1 1896	1.1387	1.1408	1.0722	1.1162	1.1170	1.1061	1.1914	1.2787	1.2909	1.3764	WING PRESSURES	0.9685				٠			٠	0.0255		1.0266	0.9647	0.9568	0.8478	11/08/0
TUNNEL PSI CONFIGURATION	56.43 deg Averaged data	80	171.4		1.8587		. 3350	1083	1.4886	1.0728	1.0414	1.0597	1.1443	. 2390	1.2645	1.2847	1.3530	. 4496		0.8435						0.9815		0.8965	•			0.7854	0.8278	0.0470
PSI	-			15		693	53	50	2588	2779	2860	3153	3252	3795	3951	4405	46/9	359		0.7185					0.9483	1,6161	0.9002	0.0119	1.1184	1.2468	1.3767	1.4398	1.4550	1.5079
	JHd Bəp		theta: 156.	2.4515	1.7017	1.4693	1.3153	1, 1453		1.27	1.28	1.31	1.32	1.37	1.39	4	1.46	. 4		r/d: 0.5935	. 2961•	2873+	•	92/81 0.9342	0.8542	1.6114	1.6005	.6650,0.6461	1.6025		1.6600	1.6310	1.6444	1.6384
WIR 1421 RUN 77	PH 9.98 c		_	. O	. <u>-</u>		20.00) in	4.0		4.5				٠	•)) R	8.0		z/d r	_	.875 1.	. 125	3/5 0.	4.623	5.125	•	625 1	5.875		•	6.625	6.875	7 125

RUN 7	78 .96 deg	PIII	156.71 deg Pl	PO 14.79 pst	14.79 ps		10 121.72 degF	gF MACH	2.0
	1		AVERAGED DATA		SCALE FA	FACTOR: 1	Q		ì
		! !					!	1	
0 0	/d theta: .5	2.0616	1/1./	186	.	201.7	216.7	231.7	
	0, 1	1.6655		٠	!				
- ·	v. c	1.3253	1.5477	•	. 8837	2.2937	2.7111	3.1102,1.6577	
N (1)		0.8959	1,0036	-	2490	1.5787	1,9267	2.6086, 1.4254 2.3211	
က်		0.6476		•	.				
e O		0.7220	0.7107	· o	954 i	1.2447	1.5742	1.8411	
₹		0.8525	1.4743	o	8750	1.1966	1.5360	1.8567	
₹		•	0.8614	Ö	8826	1,1580	1.5567	1.7896	
₹		0.8852	0.8760	o.	0.8175 ·	1.1349	1.5485	1.8259	
₹ 1	•	0.9266	0.9385	o.	8706	1.1608	1.5734	1.7357	
ທ່ເ		1.0136	1.0817	o.	8595	1.2360	1.5378	1.7929	
וֹמ	,	1.1875	1.0366		.8540	1.2445	1.6165	1.7494	
o c		1.1292	0.9532	o o	9003	1.2644	1.6316	1.6851	
	? C	1059	0.3530	<i>i</i> c	0.920	1 2824	6759	0.0040	
_	, IC.	1.2332	0.9564		.0314	1.3463	1.7079	. 55	
80	0.	1.2161	1,2363	-	.0126	1.0387	1.8946	2.1006	
				WING	WING PRESSURES	(PSI)			
p/z	r/d: 0.5935	35	0.7185	0.8435	0 9685	. 1.0935	1,2185	1 3435	
.62	T					•			
.87	5 1.0670+	9							
071.	0.0000	0 0							
4.625	0 30001	7.	9808						
4.875	•	74	0.9462						
5.125	-	12	1.4496	1.0350					
5.375	-	92	0.8232	1.0332					
5.625	1.6701.0.	59	0.7371	0.9881	0.0461				
	5 1.472	59	0.6802						
5.125	•		0.6836	0.9474	1.0623	1.0044			
•	7.	959	0.7744	•	0.9981	1.0543			
5.625	_	99	0.8129	0.8531	1.0324	1.0320			
•	_	19	0.7838	0.8298	0.9962	1.0408		. 8957	
7.125	1.46	4	0.8030	0.7629	0.9693	0.9769			
•	5 1.448	34	0.8599	0.7405	0:9459	0.9490	0.9174	0.9847	

WHITE DAK LABORATORY

E OAK LABORATORY T2 PRESSURE IEST N PSI#1(PR/10) PSI#2(TC/1) PU 14.77 psia T0 121.99 degf MA SCALE FACTOR: 1.0000 DV PRESSURES (PSI) 2.24.6 224.6 239.6 254.6 2.2456 2.2557 2.2484 2.2455,2.248 1.7377 1.7360 1.7233 1.7429 1.6018 1.5997 1.6171 1.6293 1.6018 1.5997 1.6171 1.6293 1.6018 1.5948 1.7276 1.6945 1.7200 1.6776 1.7276 1.6945 1.7200 1.6776 1.7276 1.6945 1.7200 1.6776 1.7276 1.6945 1.7200 1.6776 1.7276 1.6945 1.7200 1.6776 1.7276 1.6945 1.7200 1.6776 1.7276 1.6945 1.7200 1.6776 1.7276 1.6945 1.7200 1.6776 1.7276 1.6945 1.7200 1.6978 1.720 1.7620 1.7200 1.6978 1.7821 1.7821 1.7200 1.8014 1.7930 1.8171 1.8033 1.7201 1.7201 1.7201 1.8003 1.7201 1.7201 1.7201 1.8003 1.7201 1.7201 1.7201 1.7201 1.7202 1.7203 1.7201 1.7201 1.7203 1.7203 1.7201 1.7201 1.7203 1.7201 1.7201 1.7201 1.7203 1.7201 1.7201 1.7201 1.7203 1.7201 1.7201 1.7201 1.7203 1.7201 1.7201 1.7201 1.7203 1.7201 1.7201 1.7201 1.7203 1.7201 1.7201 1.7201 1.7203 1.7201 1.7201 1.7201 1.7203 1.7201 1.7201 1.7201 1.7203 1.7201 1.7201 1.7201 1.7203 1.7201 1.7201 1.7203 1.7201 1.7201 1.7203 1.7201 1.7201 1.7203 1.7201 1.7201 1.7203 1.7201 1.7201 1.7203 1.7201 1.7201 1.7203 1.7201 1.7201 1.7203 1.7201 1.7201 1.7203 1.7201 1.7201 1.7203 1.7201 1.7201 1.7203 1.7201 1.7201 1.7203 1.7201 1.7201 1.7203 1.7201 1.7201 1.7203 1.7201 1.7201 1.7203 1.7201 1.7201 1.7203 1.7201 1.7201 1.7203 1.7201 1.7201 1.7203 1.7201 1.7201 1.7203 1.7201 1.7201 1.7204 1.7201 1.7201 1.7204 1.7201 1.7201 1.7205 1.7201 1.7201 1.7206 1.7201 1.7201 1.7207 1.7201 1.7201 1.7208 1.7201 1.7201 1.7209 1.7201 1.7209 1.7201 1.7209 1.7201 1.7209 1.7201 1.7209 1.7201 1.7209 1.7201 1.7209 1.7201 1.7209 1.7201 1.7209 1.7201 1.7209 1.7201 1.7209 1.7201 1.7209 1.7201 1.7209 1.7201 1.7209 1.7201 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209 1.7209	### TITE OAK LABUKATIONY TUNINEL 12 PRESSURE TEST TOWNEL 12 PRESSURE TEST	TUNNEL T2 PRESSURE TEST TUNNEL T2 PRESSURE TEST AVERAGED DATA BODY PRESSURES (PSI) 194.6 2.2214 2.2214 2.2215 2.2214 2.2255 2.246 2.2257 2.2484 2.2455,2.246 1.7390 1.7390 1.7390 1.7390 1.7320 1.6594 1.6594 1.7200 1.6948 1.7200 1.6948 1.7200 1.6948 1.7200 1.7	The confidence of the confid	PSI CONFIGURATION PSIMIPR/10) PSIM2(TC/1) PHII 179.62 deg PO 14.77 pala 10 121.99 degF MA SCALE FACTOR: 1.0000 AVERAGED DATA SCALE FACTOR: 1.0000 BODY PRESSURES (PSI) 2.5629 2.1669 2.2214 2.2456 2.24.6 2.246 2.246 2.246 2.246 2.246 2.246 2.2456 2.246	WTR1421 RUN 79														N	i S N		M.	<u> </u>	ro	F 00-	r 60-3.	F 80-330	F 60-336	F 00-330	F 90~350	F 90~350	F 60-336	r 60-330	r 60-330	P 86-356
E OAK LABORATORY T2 PRESSURE TEST N PSI#1(PR/10) PSI#2(TC/1) PO 14.77 p#1a 10 121.99 SCALE FACTOR: 1.0000 DV PRESSURES (PSI) 2.2456 2.2557 2.2484 1.7377 1.7360 1.7233 1.6018 1.5997 1.6171 1.6096 1.6865 1.6886 1.7200 1.6776 1.7276 1.7200 1.6948 1.7320 1.720 1.7324 1.7320 1.720 1.7324 1.7320 1.720 1.7324 1.7320 1.720 1.7324 1.7320 1.720 1.7324 1.7320 1.720 1.7324 1.7320 1.720 1.7324 1.7320 1.720 1.7324 1.7320 1.720 1.7324 1.7320 1.720 1.7324 1.7320 1.720 1.7331 1.8313 1.8345 1.7830	TUNNEL T2 PRESSURE TEST 1 CONFIGURATION PSIMI(PR/10) PSIM2(TC/1) deg PO 14.77 pala 10.0000 GED DATA SCALE FACTOR: 1.0000 194.6 209.6 224.6 239.6 2.2214 2.2456 2.2557 2.2484 1.7390 1.7377 1.7360 1.7233 1.6564 1.6696 1.6865 1.6886 1.6564 1.7020 1.6948 1.7320 1.7206 1.7200 1.6948 1.7320 1.7390 1.724 1.7324 1.73320 1.7896 1.7890 1.8074 1.7832 1.7896 1.7958 1.7871 1.7801 1.8000 1.9089 1.7930 1.8171 1.8601 1.9089 1.7934 1.8429 1.8150 1.8313 1.8345 1.7830	TUNNEL T2 PRESSURE TEST PSI CONFIGURATION PSI#I(PR/10) PSI#2(TC/1) 179.62 deg PO 14.77 pæla TO 121.99 AVERAGED DATA SCALE FACTOR: 1.0000 194.6 209.6 224.6 239.6 2.2214 2.2456 22557 2.2484 1.7390 1.7377 1.7360 1.7233 1.6262 1.6018 1.5997 1.6171 1.6564 1.7200 1.6776 1.7200 1.6964 1.7200 1.6776 1.7320 1.7206 1.7200 1.6918 1.7320 1.7206 1.7200 1.6918 1.7320 1.7206 1.7200 1.6918 1.7320 1.7206 1.7200 1.6918 1.7820 1.7801 1.7820 1.7820 1.7830 1.7806 1.7958 1.7830 1.8171 1.8601 1.7948 1.7620 1.7802 1.8601 1.7948 1.7930 1.8150 1.8313 1.8345 1.7830	THINE TO PRESSURE TEST PSI CONFIGURATION PSIMI(PR/10) PSIM2(TC/1) AVERAGED DATA AVERAGED DATA 179.6 194.6 209.6 224.6 239.6 3.0017 2.5629 2.6214 2.2214 2.2456 2.2245 2.2464 2.2464 2.2464 2.2464 2.2464 2.2464 2.2464 2.2464 2.2464 2.2464 2.2464 2.2464 2.2464 2.2464 2.2464 2.2464 2.2464 2.2484 2	PSI CONFIGURATION PSI (IPR/10) PSI (IC/1) -0.09 deg PHI 179.62 deg PO 14.77 pæla 10 121.99 AVERAGED DATA SCALE FACTOR: 1.0000 2 /4 theta: 179.6	WT			254.6	2455,2	.7429	1 6293	1.7268	1.6945	1.7650	1.7828	1.7817	1.7725	1.8033	1.8406	1.9008				1.3435	1.3435	1.3435	1,3435	1.3435	1.3435	1.3435	. 3435	. 3435	. 3435	. 3435	1,3435
E OAK LABORATORY T2 PRESSURE TEST N PSI#1(PR/10) PSI#2(TC P0 14.77 ps la SCALE FACTOR: 1 DY PRESSURES (PSI) 2.2456 2.2557 1.7377 1.7360 1.6018 1.5997 1.6018 1.5997 1.6018 1.5997 1.7020 1.6948 1.7724 1.7324 1.7240 1.7324 1.7290 1.6948 1.7724 1.7324 1.7290 1.6948 1.724 1.7324 1.7290 1.6948 1.724 1.7324 1.7299 1.7324 1.7299 1.7324 1.7299 1.7324 1.7291 1.7330 1.7291 1.7330 1.7291 1.7330 1.7291 1.7330 1.7291 1.7330 1.7291 1.7330 1.7291 1.7230 1.7291 1.7230 1.7291 1.7230 1.7291 1.7230 1.7291 1.7230 1.7291 1.7230 1.7291 1.7230 1.7291 1.7230	TUNNEL T2 PRESSURE TEST CONFIGURATION PSIMI(PR/10) PSIM2(TC deg PO 14.77 pæla SCALE FACTOR: 1 BODY PRESSURES (PSI) 194.6 209.6 2.2557 2.2214 2.2456 2.2557 1.7390 1.7377 1.7360 1.6562 1.6018 1.5997 1.6562 1.6018 1.5997 1.6564 1.7270 1.6948 1.720 1.720 1.6948 1.720 1.720 1.6989 1.7871 1.720 1.6989 1.7871 1.720 1.6989 1.7861 1.7989 1.7871 1.786 1.7523 1.7871 1.786 1.7958 1.7871 1.8601 1.9089 1.7944 1.8150 1.8313 1.8345	TUNNEL 12 PRESSURE TEST 179.62 deg PO 14.77 p\$18 1 AVERAGED DATA SCALE FACTOR: 1 BODY PRESSURES (PSI) 194.6 209.6 224.6 1.7390 1.7377 1.7360 1.6262 1.6018 1.5997 1.6264 1.7377 1.6364 1.6964 1.7200 1.6948 1.6964 1.7200 1.6948 1.7896 1.7890 1.7871 1.7896 1.7890 1.7871 1.7896 1.7823 1.7896 1.7823 1.7896 1.7823 1.7896 1.7830 1.8601 1.7948 1.7620 1.8601 1.7948 1.7620 1.8601 1.7948 1.7620 1.8601 1.8313 1.8345	### TOOK LABORATORY TUNNEL T2 PRESSURE TEST	PSI CONFIGURATION PSINI(PR/10) PSIN2(TC -0.09 deg) PHI 179.62 deg PO 14.77 pala 14.77 pala 14.77 pala 179.62 deg PO 14.77 pala 179.63 deg PO 14.79 pala 179.64 deg PO 16.79 p		121.99		239.6	. 248	•			1.7276	1.7320	1.7432	1.7832	1.7881	1.8171	1.7802	1.7830				1.2185	.218	. 2 18	.218	.218	. 2 18	.218	2.18	2.18	2.18	•	5952
E OAK LABORA 12 PRESSUR N PSI#1(PR, N PSI#1) N PSI#1(PR, N PSI#1) N PSI#1	TUNNEL T2 PRESSUR TUNNEL T2 PRESSUR GED DATA SCALE BODY PRESSURE: 194.6 209.6 1.7390 1.7377 1.6262 1.6018 1.7390 1.7377 1.6964 1.7200 1.7206 1.7200 1.7206 1.7200 1.7206 1.723 1.7890 1.724 1.7891 1.7890 1.7896 1.7958 1.8601 1.9089 1.8150 1.8313	TUNNEL 12 PRESSUR 179.62 deg PO 14.77 AVERAGED DATA SCALE BODY PRESSURE: 194.6 209.6 1.7390 1.7377 1.6262 1.6018 1.6564 1.7200 1.7206 1.7200 1.7206 1.7724 1.7206 1.7724 1.7206 1.7724 1.7206 1.7724 1.7206 1.7539 1.7206 1.7539 1.7206 1.7539 1.7206 1.7209	TUNNEL 12 PRESSUR TUNNEL 12 PRESSUR Deg PHI (179.62 deg PO 14.77 AVERAGED DATA SCALE BODY PRESSURE: 179.6 194.6 209.6 3.0017 2.5629 2.1669 2.2214 2.2456 1.7553 1.7390 1.7377 1.5362 1.6696 1.7030 1.6964 1.7000 1.7030 1.6964 1.7020 1.7030 1.6964 1.7020 1.7030 1.6964 1.7020 1.7030 1.6964 1.7020 1.7030 1.6964 1.7020 1.7030 1.6964 1.7020 1.7030 1.6964 1.7020 1.7030 1.6964 1.7020 1.7030 1.6964 1.7020 1.7096 1.6909 1.7096 1.7096 1.6909 1.70948 1.8121 1.8150 1.8313	PSI CONFIGURATION PSIMI (PR. 179.62 deg Pol 14.77 AVERAGED DATA SCALE BODY PRESSURE: 3.0017	> E	-	(PSI	224.6	2.2557		1 5997	1.6865	1.6776	1.6948	1.8074	1.787.1	1.7989	1.7930	1.7620	1.8345				1.0935						·	÷	÷	• • • • • • • • • • • • • • • • • • •		
	TUNNE 1 CONFIGURATI deg GED DATA 2.2214 1.7390 1.7390 1.7206 1.7968	PSI CONFIGURATI 179.62 deg AVERAGED DATA B 2.2214 B 2.2214 B 1.7390 1.73	TUNNE PSI CONFIGURATI deg PHI 179.62 deg AVERAGED DATA 2.5629 2.1669 2.2214 1.8930 1.7553 1.7390 1.7553 1.7390 1.7553 1.7390 1.7553 1.7390 1.7553 1.7390 1.7553 1.7390 1.7302 1.7030 1.6954 1.7030 1.6957 1.7030 1.7030 1.6959 1.7096 1.8483 1.8601 1.8483 1.8601 1.8483 1.8601	#IR1421 PSI CONFIGURATI -0.09 deg PHI 179.6 deg	E OAK 12 P N PSI	14.77 SCALE	ò	209.6	2.2456	. 7377	1 6018	1.6696	1.7200	1.7020	1.7890	1.7523	1.7958	1.8014	1.7948	1.8313	WING PRESSURE			.8435 0.9685	o ·	o T	o ·	o T	o .	o ·	o d	o o	o` o -	0 0	6

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	WIR1421 RUN 81			PSI COL	TUNNEL PSI CONFIGURATION	12 PRESSURE 1EST PSI#1(PR/10) P	: 1EST 10) PSI#2(TC/1)	ξ		WTR 1421 RUN 81	
ALPII	96.6	дед	PHI	179.51 deg Averaged data		PO 14.77 F SCALE F	ps (a FACTOR: 1	T0 122.26 degF 1.0000	legF	MACH	2.0
					800	BODY PRESSURES	(PSI)				
	2/d 0.5	theta:	179.5 2.8065 2.3277	194.5		209.5	224.5	239.5	254.5		
	1.5		1.9325	2.1928		2.4472	2.6913	2.8941	.0254.1	. 8082	
	3.5		1.4388	1.5892		1.7708	1.9750	2.1285	2.5414,1.	. 55 10	
	3. 3.5		1.2160	1.3241	-	.4806	1.6606	1 8492	93901		
	4 ,		1.1852	1.4463	-	. 4529	1.6632	1.8401	2 0031		
			1.1502	1.2673	-	.4685	1.6224	1.8265	1.9394		
	4 4 Ú a		1.1018	1.2176	-	. 4040	1.5989	1.8365	2.0005		
			1.0918	1.2015	-	.4501	1.6227	1.8350			
	י פיני		1.0879	1.2386	-	.4449	1.6784	1.7890	1.9790		
			9/01.	1.2269	-	.3835	1.6240	1.8060	1.9491		
	o u		6/67.	1.1/27	••	.3710	1.5955	1.7808	1.9102		
			1.4669	1. 1916	-	. 3530	1.5668	1.7946	1.9191		
	, r		1.3069 1.3069	1.3719	-	. 3170	1.5071	1.7229	1.9329		
			7676.1	1.4381	-	. 4603	1.5281	1.7866	1.9087		
	•		1.5232	1.5344	*	4788	1.4917	1.7419	2.0109		
					3	WING PRESSURES	(PSI)				
	z/d r/	r/d: 0.5935	35	0.7185	0 8435	90					
	.625	2.0058				0.9663	1.0935	1.2185	1.3435		
	7	.0072+									
•	4, 125	1.9482	32								
•	-	99191 1.9483	183								
•	1.625	1.9501	-	01 66 1							
•	1.875	1.7757	5.7	1.9504							
	5. 125	1.9460	0	1.9455	1.7766						
	5.375	1.9291	-	1.9356	1.8872						
	-	.8060,0.9520	0		0.8996	7101					
	5.875	1.9031		1.8973	1.8734						
_	5, 125			1.9024	1.8991	1.8417	1 7262				
	6.375	1.9575	ស	1.9463	1.9047	1.8451	1 7988				
-	5.625	1.9092	2	1.9285	1.9140	1.8717	1 8323	0178			
_		1.9191	-	1.9045	1.9226	1.8312	1 8766		1		
, - 1	7, 125	1.9082	2	1.9075	1.8888	1.8558	1 8463	1.0011,1	, 1.855/		
	.375	1.9075	ល	1.8896	1.8981	1.8747	1.8550	1 6801	•	•	
							!		. 4000		

WHITE OAK LABORATORY

WTR1421 RUN 82	MACH 2.0			.6582	295																												
	degF №		254.7	3.5777, 1.65	3.0219, 1.42 2.7171	•	•	2.2/61		•	•		•	2.2356	2.2783		1,3435														1.8642		
	10 122.58 de 1.0000		239.7	3.3357	2.4568	•	2.0903	2.0857	2.0680	2.0156	•	1.9950	•	1.9503			1.2185			•			•							1.7484		1 8665	
1EST)) PSI#2(TC/1)	psta FACTOR: 1.0	. (ISA)	224.7	2.9768	2.1791	1.8030	1.7855	1.7139	1.7256	1.7787	1.7171	1.6856	1.6578	1.3880	1.2638	(PSI)	1.0935											1.9976	2.0394	2.1251	2.1470	2 1096	
12 PRESSURE TEST PSI#1(PR/10) P	PO 14.78 PE SCALE FA	BODY PRESSURES (2.5626	.8131	. 4769	.4278	. 4433	. 4225	. 3928	. 3234	.3140	.2918	. 2308 3258	.2437	WING PRESSURES	0.9685									0.9717			2.0703	2, 1357	2, 1357		•
TUNNEL CONFIGURATION	DATA	800	,	2.1434 2	. 4668	1749 1	1.4351	1.0225	0.9985	1.0393	1.0122	0.9527	0.9554	2386	.4647	>	0.8435							2.0575	•			•	2.1841	2.1896	2.1883	2 1414	
PSI C	179.67 deg AVERAGED DATA		194.		-	*-								-	•		0.7185					2.3235	2.2705	2.2736	2.2489	0.2369	2.2088	2,2056	2.2394	2.2113	2.1793	2.1816	
	IHd		ita: 179.7 2.5895	2. 1020 1. 7 149	1.1978	0.9180	0.8604	0.7379		0.7162	•	1. 1987	1.3948	1 4946	1.4517		0.5935			2.3124	2.3069	2.2681	2.0580	2.2795	2.2535	Ö	2.2170		2.2639	2.2008		2.1960	
WTR1421 RUN 82	14.97 deg		<u> </u>) is c	3 2 2 0		4 4 0 6	5.5	4.8	5.0	5.5		5 C		8.0		/d r/d:	625 2,3533*	.875 2.3594+	125	375 2.33131					1.7387,						125	
R L N	=																7		e,								Ö,			•	•	7	

WHITE DAK LABURATORY

JTR 142 1 RUN 83	11 2.0																					•														
* 12	gF MACH		277.1		2,2571,2,2489	: -			1.6311	1.7038	1 7694	1.7152	1.7913	1.7890	1.7795	1.8080	1.8450	1.8229	1.9005		1040													1	1.7220	
=	T0 122.69 degf 1.0000		262.1		2.2577		1.7276		1.6190	1,0941	1 7356	1.7651	1.7473	1.787.1	1.7919	1.8229	1.7807	1.8448	1.7826		2010	3											,		•	1.7069
TEST 3) PSI#2(TC/1)	psia . FACTOR: 1.	(PSI)	247.1		2.2643		1.7421		1.6012	1.0891	1.6994	1.7376	1.8133	1.7916	1.8063	1.7995	1.7610	1.8019	1.8413	(PSI)	- 0038	200.										1.5903	1.6814	1.7637	1.8301	1.8046
T2 PRESSURE II PSI#1(PR/10)	PO 14.75 PS SCALE FA	BOOY PRESSURES (PSI)	232.1		2.2584		. 7415	,	7009	7216	. 7084	.7799	. 7952	.7523	. 7990	. 8053	. 1977	. 9133	8388	WING PRESSURES	0 9685			•					0	0.6936	0900	1.8069	1.8000	1.8494	1.8228	4 . C
1UNNEL PSI CONFIGURATION	DATA	800	_		2.2370 2		.7418	,	1079	2771	6963	7264	7949	7986	. 7904	.8023	.8692	. 8697	. 8073	X	0 8435) ; ;						1.6857	1.7647	0.7675	1.7555	1.003	1.8083	1.0200	. 8453	1.0104
PSI	202.14 deg Averaged data		217.				-	•		-			_	_	-	-	_	_	-		0.7185					•		•		4 7500	1.7580		1.6262	1.8242	1.8084	1.8201
	PHI			3.0144	2.1742	1.9039	1.7626	1.5415	1 6987	1.7031	1.7123	1.7356	1.7599	1.7842	1.8183	1.8482	1.8738	1.8567	1.8035		0.5935			1.6864	1.6901	1.7291	1.6844	1.7316	1.7412	1 7446	. / 440	1 8249		1.1921	1 8093	2000
WIR1421 RUN 83	-0.09 deg		`	s 0 -	1.5	2.0	2.5	ا ا ا	. 4 . C	. 4	7.2	8.8	5.0	5.5	0.9	6.5	7.0	7.5	8.0		z/d r/d: (5 1.6601			.375 1.73571	.625	8/2 101	125	3/5 675 + 7524 O		125				125	0 1
RUN	Į.																				×	B	e C	4	4	4	•		ת מ						, ,	

WHITE DAK LABORATORY

12.1 84	2.0																																				
WTR1421 RUN 84	egf MACH		277.1		2.6145,2.0081	2.2161, 1.6618	2.0037		1.8300	2.00	1 9483	1.8776	1 9446	1.9187	1.8957	1.9096	1.9404	1.9282	1.9327		30.70	0													. 9539		1.9127
9	T0 122.88 degF 1.0000		262.1		2.6221		1.9659		1.7729	1.8380	000.	1.8889	1.8627	1.8825	1.8758	1.8971	1.8502	1.9219	1.8019		, t													1.9696	1.9655, 1	1.9413	1.9235
TEST (5) PSI#2(TC/1)	psta FACTOR: 1.	(PSI)	247.1		2.5895		1.9508	1 216 1	1 7 1 6 1	1 7636	1.7702	1.7969	1.8691	1.8570	1.8428	1.8333	1.7957	1.8380	1.8419	(PSI)	1 0935											1.9120	1.9674	1.9537	1.9659	1.9281	1.9298
12 PRESSURE TEST V PSI#1(PR/10) P	PO 14.76 PS SCALE F/	BODY PRESSURES	232.1		2.5207,	•	1.8910	7 2 2 2 7	6555	7413	7086	.7722	1.7901	1.7791	.7892	7992	. 7914	. 9109	1.8392	WING PRESSURES	9685									0.9413		1.9598	1.9286	1.9731	1.9445	1.9473	1.9513
TUNNEL PSI CONFIGURATION	DATA	B00						75	6.0	95	6400	6648	11	80	7.8	55	15	19	2.1	3	0 8435							1,9238	1.9462	0.9135	1.9158	1.9201	1.9290	1.9524	1.9695	1 9306	1.9508
PSI CO	202.10 deg AVERAGED DATA		217.1		2.4134		1.8262	1 6175	1.0173	1 6495	1.64	1.66	1.7277	1.7708	1.7478	1,7655	1.8315	1.8379	1.7821		0.7185					1.9423	1.8994	1.8941		0.9145	1.8923	1.8913	1.9465	1.9405	1.9176	1.9317	1.9239
	144			3.1768	2.2594	1.9497	1.7722	1.5206		1 6097	1.5995	1.6245	1.6453	1.7289	1.7608	1.8027	1.8251	1.8054	1.7780		0.5935			. 9073	1.9078	.8997	. 9235	.8941	. 8851	,0.9162	.8709		. 9419	. 9003	. 9216	. 9165	. 9284
- 4	6 deg		theta																		r/d: 0	1.8925*	1.8920+	-	1.94261	-	-	-	-	1.8601,0	-		_	_	-	-	-
WIR 142 RUN 84	4.96		p/z		1.5	2.0	2. c	ָ פייר		4	4.5	4.8	5.0	5.5	0.9	6.5	7.0	7.5	8		p/z	3.625	3.875	4.125	4.375	4.625	4.875	5.125	5.375	5.625	5.875	6, 125	6.375	6.625	6.875	7, 125	7.375
	AL PH																																				

WHITE OAK LABORATORY

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	WIR1421 RUN 85			PS1	TUNNEL PSI CONFIGURATION		12 PRESSURE TEST PSI#1(PR/10) P	TEST 0) PSI#2(TC/t)	c/1)			WTR1421 RUN 85	
Ξ	9.97	бәр	PHI	202.07 deg AVERAGED DATA	deg :D DATA	PO	14.76 psta SCALE FACTOR	psta Factor:	10000 1	123.05 de	degF	MACH	8
						BODY	BODY PRESSURES (PSI)	(184)				•	
	b/z	theta:	202.1	21	217.1	232	-	247.1	262.1	_	277.1		
	0.		2.7546										
	1.5		2.2929	2	2.6000	2.8460	460	3.0128	3. 1029	29	3.0933,1	1,7690	
	2.0		1.9502								2.6073,1	1.4842	
	2.5		1.7277		.9158	2.0385	385	2.2456	2.30	3072	2.3538		
	ى س د		1.4.09	•		,		, 400	((
	ρ (1,4595	<u>-</u> .	6202	1.7		1.9084	2.0503	03	2.1497		
	0.4		1.4277		4146	1.7	. 787 1	1.9792	2. 11	100	2.2517		
	4		1.4027	_	2887	S 0.	8 165	1.9471	2.10	1092	2.1818	•	
	4.5		1.3670	-	5564	1.7	7616	1.9329	2.10	1095	2.2530		
	4.		1.3466	_	5584	- 8	8350	1.9717	2.14	1418	2.1726		
	5.0		1.3457	-	6009	9 .4	8351	2.0477	2.09	1860	2.2356		
	5.5		1.3459	-	5855	1.7	7533	1.9712	2.09	0982	2,1925		
			1.3104	-	5038	1.7	7336	1.9359	2.0646	46	2.1437		
	6.5		1.3607	-	4727	1.7	. 7046	1.8924	•	0659	2.1410		
	7.0		1.5844	-	5011	9.1	6459	1.8156	1.9863	63	2.1426		
	7.5		1.6268	-	5934	1.7	7374	1.8288	2.0371	7.1	2.1179		
	8.0		1.6234	_	6319	1.6	6069	1.6980	1.7639	39	1.9455		
						MING	WING PRESSURES	(PSI)					
	J p/z	r/d: 0.5935	35	0.7185	0	0.8435	0.9685	1.0935	2	1,2185	1.3435	22	
		•										!	
	3.875 2.	2451+											
	4, 125	2.2561	3.1										
	4.375 2.	28181	520										
	4.625	2.2140	40	2.2752									
	4.875	2.2674	74				•	•					
	5, 125	2.1944	77		~	2656							
		2.1739	39			2596							
	.625 1	9156,0,1998	98	0.1993	0	2111	0.2771						
	5.875	2.1434	34	2, 1743	.:	2031							
	6.125			2, 1589	2	2015	2.2599	2.246	ιū				
	6.375	-	936	2.1979	2	2030	2.2128	2.289	2				
	6.625	2.1410	0	2.1775	2	2062	2.2395	2.2532		2.3082			
	6.875	2.1542	12	2.1518	2	2030	2.1942	2.237		2.2872.	2.0250		
	. 12	Ξ.	3.1	Ξ.	.	1538	2.1892	2.182		2.2345			
	7.375	2.1281	-	2.1314	2.	1635	2.1765	. 2.163		2.1876	2.2268	99	

HITE DAK LABORATOR

WTR1421 RUN 86	MACH 2.0			œ r	<u>-</u>																											
			277.1	3.6718,1.4958	2.8013			2.6318							2.5333	2.2198		1.3435													. 1223	
•	10 123.01 degF 1.0000		262.1	3.6971	2.7521	2.4475	2.5112	2.493/ 2.5568	2.5282	2.4787	2.4712	2.4254	2.4251		2.3827	1.9506		1,2185												2.7800	2.7477,2	2.6768
TEST)) PSI#2(TC/1)	psta T	(PSI)	247.1	3.5322	2.6435	2.2330	2.3097	2.2648 2.2643	2.2985	2.3369	2.2557	2.2111	2.1645	2.0808	2.0809	1.7408 .	(PSI)	1.0935										2.7105	2.7468	2.6948	2.6674	2.6024
12 PRESSURE TEST 4 PSI#1(PR/10) P	PO 14.77 PS SCALE FA	PRESSURES	232.1	3.2338	2.3797	2.0044		2.0185 1 9715							1.8650	1.7349	WING PRESSURES	0.9685								0.7526		2.6987	2,6392	2.6625	2.6093	2.5979
TUNNEL PSI CONFIGURATION	DATA	BODY	217.1	2.8274	.0652			6330			6133	. 5246	4791	.4891	. 4535	. 2544	3	0.8435						2.7470		0.6517			•	2.6209	2.6184	2 5606
ISd	I 202.12 deg Averaged data				2	-				-		-	-	-	-	-		0.7185				7567	2 6812	2.6227	2.6468	0.6273	2.5987		2,6152	2.5832	2.5623	2.5587
	1Hd 6		theta: 202.1 3.3930	2.8224 2.3433 4.0810	1,7150	1.4124	1.3616	1.3297	1.2478	1.2446	1.2261	1, 1815	1.1771	1. 1932	1.2038	1.2351		. 0.5935	56+	+ /	``;	7 67 5 1 8 1	2.7504	2.6348	2.6009	o.	2.5672		•		2.5693	2.5522
WTR1421 RUN 86	14.96 deg		5 25 6		5 67 6 10 10	3.5 5.5								7.0	7.5	0.8		z/d r/d:	625 2.7	3.875 2.726	•	7	4.875	5, 125	5,375	5.625 1.6792	5.875	6, 125	6.375	6.625	6.875	7.125

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Ξ	WIR1421 RUN 87	дер	1	PS1 CON	TUMBEL PST CONFIGURATION 46 class	T2 PRESSUR PSIMI(PR/	: 1EST 10) PSI#2(1C/1)			WTR:421 RUN 87	
	•	a	•	AVERAGED DATA	1 A 1 A	PU 14.75 F SCALE F	PSÍA FACTOR:	T0 123.31 degF 1.0000	юдг	МАСН	2.0
					98	BOOY PRESSURES	(PSI)			•	
	2/d 0.5 1.0	theta:	224.5 3.0324 2.5850	239.5	10	254.5	269.5	284.5	299.5		
			2.1900	2.2465	53	2.2715	2.2807	2.2705	2615,2.	2534	
	30.5			1.748	=	1.7484	1.7492	1.7321	1.9149, 1.8	. 8397	
			•	1.6206	90	1.6026	1.5994	1.6238	1.6421		
			•	1.3980	o ·	1.6739	1.6963	1.6978	1.7335		
	. 4 		1.7040	1.6991	= (1.7272	1.6845	1.7374	1.7092		
			1.7170	1.6992	2 (1.7104	1.7020	1.7413	1.7762		
			1 7654	1.7306	<u>o</u> u	1.7836	1.7404	1.7705	1.7202		
			1 7863	1.7935	ח מ	1.7991	1.8186	1.7519	1.8028		
			1 8220	1.00.1	י נ	1.7564	1.7986	1.7988	1.8013		
		٠	1 8550	1061.1	٠ ،	1.8063	1.8133	1.8021	1.7874		
	7.0		1 8845	1.008	, (1.8125	1.8041	1.8307	1.8168		
	7.5		1.8606	1.8783	.	1.8034	1.7660	1.7866	1.8529		
			00001		n -	1.9252	1.8073	1.8512	1.8254		
				1.820	-	1.8465	1.8490	1.7652	1.9014		
					3	WING PRESSURES	(PSI)				
	z/d r.	r/d: 0.5935		0.7185	0.8435	999	•				
` '	625	6712+		1		0.3063	6.6935	1.2185	1.3435		
.,	. 875 1.	6675+									
•	. 125	_	co Co								
7	.375 1.	75321 1.7020	20								
•	4.625	1.7417		1.7573							
• 1		1.7208		1.7402							
4, 1		1.7467		1.7494	1.7220	•					
ر ب	375	-		1.7770	1,7830						
u)	625 1	.7617,0.7902		0.7802	0.7761	0.7429					
		1.7510	•	1.7694	1.7680						
۱ س				1.7741	1.7934	1,8192	1.6540	_			
۰	375	1.8326	, ,	1.8349	1.8164	1 8091	1 7451) -			
·	625	•	•	1.8350	1.8382	1.8571	7915				
9	. 875	•	_	1.8176	1.8534	1 8246	0.04.	7000			
7	12	æ .		1.8284	1.8254	1.8442	1.0100	1.7500	1.7084		
_	375	1.8226	••	1.8306	1.8522	1.8462	1 B 100	- •			
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PROSENDED SOCIETA PROGRESS CONTRACTOR CONTRACTOR PROGRESS CONTRACTOR CONTRACT

T2 PRESSURE IEST N PSIMI(PR/10) PSIM2(TC/1) F0 14.75 psia 10 123.38 degf SCALE FACTOR: 1.0000 19000 PRESSURES (PSI) 2.6427 2.6650 2.6403 1.9886 2.0078 1.9289 1.9227 1.907 1.8662 1.9040 1.943 1.8653 1.9289 1.9033 2.0036 1.9743 1.9033 1.9579 1.9772 1.9034 1.9577 2.0053 1.9046 1.9577 2.0053 1.9046 1.9577 2.0053 1.9058 1.9614 1.8337 1.9624 1.9614 1.8337 1.9623 1.9614 1.8337 1.0685 1.0935 1.2185 2.00987 2.0957 2.1322 2.00987 2.0957 2.1322 2.0589 2.0558 2.0558 2.0558 2.0558 2.0558 2.0558 2.0558 2.0558 2.0558 2.0558		2	•									
10 121.38 deg		=	- c		PSI CONF	TUNNEL TGURATION	T2 PRESSURE PSI#1(PR/1) ((1)		WTR 1421 RUN 88	2.1 88
2/d theta: 224.9 239.9 254.9 269.9 284.9 10.0 2 4069	16 611		~	PHII	224.86 deg AVERAGED DA		14.75 SCALE		123.38	eg F	MACH	2.0
2/d theta: 224.9 254.9 269.9 269.9 284.9 1.0 2.8946 2.5883 2.6427 2.6550 2.6403 2.5 1.9897 1.9470 1.9866 2.0078 1.9811 2.5 1.6049 1.7205 1.7210 1.7583 1.8277 3.5 1.6049 1.7205 1.7210 1.7583 1.8074 4.5 1.6018 1.7237 1.7210 1.7583 1.9011 4.5 1.6018 1.7400 1.8134 1.865 1.9040 1.9040 5.5 1.8914 1.8058 1.9071 1.9659 1.9073 1.9073 5.5 1.8913 1.9073 1.9073 1.9069 1.9073 1.9068 6.0 1.9950 1.9073 1.9073 1.9073 1.9068 7.0 1.8948 1.8956 1.9244 1.9073 1.9068 7.0 1.9948 1.9653 1.9073 1.9073 1.9073 8.0						800	PRESSURES	(pS1)				
1.5		2/d 0.5		224.9 3.4089	239.9	, s	9. 4.	269.9	284.9	299.9		
2.5 1897 19470 19886 2.0078 19811 3.5 16049 1.7237 1.7210 1.7563 1.8227 1.9040 1.9050 1.9040 1.9050 1.9040 1.9050 1.9040 1.9050				2.4296	2.5683		6427	2.6650	2.6403	2.5724.2	, 2.0530	
1.6				1.8997	1.9470		. 9886	2.0078	1.9811	2. 1692, 1. 6840 1. 9724	.6840	
4 0 1.7005 1.3917 1.7907 1.8662 1.9040 1.994 4 3 1.6918 1.7733 1.8950 1.8950 1.9940 1.994 4 5 1.6918 1.7742 1.7783 1.8950 1.9928 1.9928 5 0 1.7402 1.8954 1.8958 1.8994 2.0043 1.995 6 0 1.8943 1.9907 1.9968 1.9977 2.0036 1.9972 2.00 7 0 1.8948 1.8956 1.9977 2.0036 1.9968 2.00 7 0 1.8948 1.8956 1.9957 2.0031 2.0053 2.00 8 0 1.8948 1.8956 1.9957 2.0231 2.0231 2.00 8 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				1.6762	1.7237	-	7210	1.7583	1.8227	1 8724		
4.5 1.6913 1.7533 1.8443 1.8503 1.9324 1.93 4.5 1.6918 1.7533 1.8443 1.8503 1.9324 1.93 4.5 1.6918 1.742 1.8954 1.8954 1.8956 1.9324 1.93 5.0 1.742 1.7694 1.8958 1.9939 2.0036 1.9724 2.00 6.0 1.8913 1.9059 1.9070 1.9659 1.972 2.00 7.0 1.9909 1.9909 1.9924 1.9919 2.0073 1.9614 1.8337 1.98 8.0 1.8913 1.9929 1.9977 2.0672 1.9918 2.0073 1.9918 2.0073 1.9918 2.0073 1.9918 2.0073 1.9918 2.0073 1.9918 2.0073 1.9918 2.0073 1.9918 2.0073 1.9918 2.0074 1.9929 1.9977 2.0073 1.9918 2.0074 1.9918 2.0074 2.0073 2.0074 1.9918 2.0074 2.0075 2.0077 1.9918 2.0074 2.0075 2.0077 2.0075 2.0077 2.0077 2.0077 2.0077 2.0078 2.0077 2.0077 2.0078 2.0077 2.0078 2.0077 2.0078 2.0078 2.0077 2.0078 2.0077 2.0079 2.0078 2.0079 2.0078 2.0077 2.0079 2.0078 2.0077 2.0			_	1.7005	1.3917	-	1901	1.8662	1.9040	1.9696		
4.8				1.6935	1.7533		8443	1.8503	1.9324	1.9880		
5.0 1.7400 1.8378 1.9033 2.0036 1.9744 2.03 6 5.5 1.8380 1.8973 1.9007 1.9559 1.9074 2.03 6 5.5 1.8980 1.8971 1.9007 1.9659 1.9974 2.03 6 5.0 1.8913 1.9007 1.9659 1.9979 1.9972 2.03 1.9979 1.9972 2.03 1.9979 1.9972 2.003 2.004 1.9968 1.9977 1.9977 2.0033 2.007 1.9989 1.9977 2.0031 2.0031 1.9989 1.9977 2.0031 1.9989 1.9977 2.0031 1.9989 1.9977 2.0031 2.00413 1.9989 1.9977 2.0031 2.00413 0.00413 0.00413 0.00932 2.00414 1.9989 2.00413 0.00413 0.00413 0.00932 2.00414 2.0059 1.9977 2.00579 2.00414 2.0059 1.9970 2.0059 1.9977 2.00579 2.0059 1.9970 2.0059 1.9970 2.0059 1.9977 2.00570 2.0058 2.0059 1.9970 2.0059 2.0059 1.9970 2.0059 2.0059 1.9970 2.0059 2.0059 1.9970 2.0059 2.0059 1.9970 2.0059 2.0059 1.9970 2.0059 2.0050		. 4		1.7142	1.7476		8154	1.8546	1.9289	2.0464		
5. 5 1 8380 1 8733 1 9007 1 9659 1 9934 2.00 6. 0 1 8913 1 8971 1 9007 1 9659 1 9772 1 9772 1 9772 1 9772 1 9772 1 9772 1 9772 1 9772 1 9772 1 9772 1 9974 2.0053 2.0075 1 9677 2.0031 2.0071 2.0032 2.0031		5.0		1.7400	1.8378		9033	2.0036	1 9744	1.9/43		
6.0 18913 1.8971 1.9246 1.9579 1.9772 1.9974 1.9504 1.9504 1.9974 1.9977 2.0053 2.007 1.9668 1.9374 1.9517 2.0053 2.007 1.9668 1.9374 1.9517 2.0053 2.007 1.9698 1.9677 2.0231 2.007 1.9698 1.9677 2.0231 2.007 1.9698 1.9677 2.0231 2.007 1.9698 1.9677 2.0231 1.9614 1.8337 1.9678 1.9678 1.9678 1.9678 1.9678 1.9678 1.9678 1.9678 1.9678 1.9678 1.9678 1.9678 1.9678 1.9678 1.9678 1.9678 1.9678 1.9978 2.0678 2.0129 2.0298 1.9977 2.0258 2.0771 2.0209 1.9978 2.0368 2.037		5.5		1.8380	1.8733	-	1006	1.9659	1.9934	2.0237		
6 5 1.9304 1.9059 1.9341 1.9517 2.0053 2.007 1.9668 1.9204 1.9500 1.9668 2.007 1.9608 2.007 1.9608 2.007 1.9608 2.007 1.9608 2.007 1.9608 2.007 1.9608 2.007 1.9608 2.007 1.9608 2.007 1.9608 1.9609 2.007 1.9614 1.8337 1.9614 2.0031 2.0031 2.007 1.9614 1.8337 1.9614 1.8337 1.9614 1.8337 1.9614 1.8337 1.9614 1.8337 1.9614 1.8956 0.07185 0.9685 1.0935 1.2185 2.0047 2.0021 2.0021 2.0021 2.0021 2.0021 2.0021 2.0021 2.0021 2.0021 2.0021 2.0021 2.0022 2.0021 2.				1,8913	1.8971	-	9246	1.9579	1.9772	1.9820		
7.0 1.9500 1.9668 1.9234 1.9143 1.9608 2.00 7.5 1.9308 1.9663 2.0475 1.9617 2.0231 2.02 8.0 1.8948 1.8956 1.9627 2.0231 2.02 8.1 1.8935 1.9614 1.8337 1.99 8.2 2.0211 8.2 2.0211 8.2 2.0212 8.2 2.0213 2.0220 8.2 3.0213 2.0328 2.0784 8.2 2.023 2.0038 2.0328 2.0498 2.0685 2.0937 2.0526 2.0937 2.0557 2.0510 2.0526 2.0937 2.0557 2.0510 2.0526 2.0937 2.0510		6.5		1.9304	1,9059	-	9341	1.9517	2.0053	2.0024		
1. 9308		7.0		1.9500	1.9668	-	9234	1.9143	1.9608	2.0416		
# 0 1.8948 1.8956 1.9623 1.9614 1.8337 1.96 MING PRESSURES (PSI) MING PRESSURES (PSI)				1.9308	1.9693	~	0475	1.9577	2.0231	2.0229		
Z/d r/d: 0.5935 0.7185 0.8435 0.9685 1.0935 1.2185 625 2.0047* 2.0211 2.0211 7 1.2185 1.2185 1.2185 1.2185 375 2.00594 2.0594 2.0672 2.0672 2.0672 1.2185 1.2185 875 2.0676 2.0133 2.0672 2.0784 2.0672 2.0771 875 1.9918 2.0358 2.0784 0.0932 2.0771 2.1322 875 1.9650 1.9970 2.0364 2.0364 2.0675 2.0571 2.0365 175 1.9650 1.9970 2.0364 2.0365 2.0685 2.0571 2.1258 175 1.9650 1.9970 2.0365 2.0685 2.0571 2.0556 2.0556 2.0556 2.0570 <				1.8948	1.8956	-	9623	1.9614	1.8337	1.9103		
z/d r/d: 0.5935 0.7185 0.8435 0.9685 1.0935 1.2185 625 2.0047** 2.0211 7 1.2185 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>X 1 3</td><td>IG PRESSURES</td><td></td><td></td><td></td><td></td><td></td></td<>						X 1 3	IG PRESSURES					
625 2 0047* 875 2 0047* 875 2 0047* 875 2 00594 125 2 0511 2 0200 625 2 00478 126 2 0512 1 9989 1 9977 2 0672 1 9918 2 0358 2 0784 625 1 9540,0 0169 0 0258 0 00413 0 0032 875 1 9650 1 9970 2 0364 125 1 9650 2 0408 2 00685 2 0685 1 9839 2 0406 2 0498 2 0685 2 0957 1 9839 2 0341 2 0556 2 0987 1 25 2 0094 2 0233 2 0339 1 25 2 0695 2 0526 2 0556 1 375 2 0094 2 0242 2 0557 1 2058 2 0526 2 0557 1 2058 2 0526 2 0557 1 375 2 0196 2 0527 1 2058 2 0525 2 0557 1 2058 2 0557 1 2058 2 0557 1 2057 2 0570		p/z		35	0.7185	0.8435	7 9685	1000	•		U	
875 2.00594 125 2.0121 375 2.0129 2.0594 875 2.0139 2.0672 125 1.9918 2.0358 125 1.9918 2.0358 125 1.9918 2.0358 2.0358 2.0784 0.0932 875 1.9650 1.9970 1.25 2.0364 2.0364 1.25 2.0371 2.0364 2.0293 2.0406 2.0498 2.0589 2.0371 2.0589 2.0526 2.0556 2.0094 2.0242 2.0570 2.0526 375 2.0196 2.0526 2.0570		625	2.0047•) 			-	1.3433	n	
125 2.0211 .375 2.06171 .375 2.06129 .20129 2.0594 .875 2.0676 .20133 2.0672 .375 1.9918 .20358 2.0784 .625 1.9950 .19650 1.9970 .20364 2.0364 .20293 2.0364 .20293 2.0498 .20341 2.0556 .20397 2.0987 .20391 2.0954 .2033 2.0556 .2033 2.0589 .2033 2.0589 .20526 2.0659 .20526 2.0659 .20526 2.0659		875					•					
375 2.06171 2.0200 625 2.0676 2.0594 875 2.0676 2.0133 2.0676 2.0133 375 1.9918 2.0358 375 1.9918 2.0358 625 1.9650 1.9970 2.0364 0.0932 875 1.9650 1.9970 2.0365 2.0365 2.0771 175 2.0498 2.0685 2.0341 2.0566 2.0987 2.1258 2.093 2.0341 2.056 2.0987 2.1258 2.0094 2.0233 2.0339 2.0589 2.0526 2.0865 375 2.0196 2.0242 2.0570 2.0526 2.0570		4, 125	C	=								
625 2.0129 2.0594 875 2.0676 2.0133 1.25 1.9989 1.9977 2.0672 3.75 1.9918 2.0784 0.0932 1.25 1.9540,0.0169 0.0258 0.0413 0.0932 1.75 1.9650 1.9970 2.0364 2.0771 1.75 2.0293 2.0406 2.0498 2.0578 2.1258 1.9839 2.0341 2.0556 2.0587 2.1258 1.9839 2.0151 2.0577 2.0597 2.1258 1.55 2.0151 2.0577 2.0596 2.0526 2.0556 1.25 2.0094 2.0233 2.0577 2.0526 2.0570 375 2.0196 2.0242 2.0557 2.0558 2.0570		375	.06171	200								
6.75 2.0876 2.0133 1.55 1.9949 1.9977 2.0672 1.55 1.9918 2.0784 0.0932 1.950 0.0258 0.0413 0.0932 1.950 1.9970 2.0364 2.1022 2.0771 175 1.9933 2.0365 2.0685 2.1258 1.9839 2.0498 2.0685 2.1258 625 1.9839 2.0341 2.056 2.0987 2.1352 1.25 2.0131 2.0339 2.0589 2.0556 2.0559 1.25 2.0166 2.0242 2.0570 2.0526 2.0570		4.625	2.03	29	2.0594							
1.25 1.9989 1.9977 2.0672 375 1.9918 2.0784 0.0932 655 1.9540,0.0169 0.0258 0.0413 0.0932 675 1.9650 1.9970 2.0364 2.1022 2.0771 175 2.0293 2.0498 2.0685 2.1258 625 1.9839 2.0341 2.0556 2.0987 2.0557 875 2.0151 2.0138 2.0577 2.0510 2.0556 2.0556 125 2.0094 2.0233 2.0339 2.0589 2.0526 2.0865 375 2.0196 2.0242 2.0570 2.0529 2.0570			2.06	9/0	2.0133							
3.75 1.9918 2.0358 2.0784 625 1.9540,0.0169 0.0258 0.0413 0.0932 1875 1.9650 1.9970 2.0365 2.1022 2.0771 375 2.0293 2.0406 2.0498 2.0685 2.1258 625 1.9839 2.0341 2.0556 2.0597 2.0597 2.1322 875 2.0151 2.0138 2.0577 2.0510 2.0594 2.1255,2.0590 125 2.0094 2.0233 2.0339 2.0589 2.0526 2.0865 375 2.0196 2.0242 2.0557 2.0558 2.0525 2.0570			99.1	D (1.9977	2.0672						
1.25 1.9650 1.9933 2.0364 1.5 1.9650 1.9933 2.0365 2.1022 2.0771 1.5 2.0293 2.0406 2.0498 2.0685 2.1258 625 1.9839 2.0341 2.0556 2.0987 2.0957 2.1322 875 2.0151 2.0138 2.0577 2.0510 2.0554 2.1255,2.0590 125 2.0094 2.0233 2.0339 2.0589 2.0526 2.0865 375 2.0196 2.0242 2.0557 2.0558 2.0525 2.0570		575 575	0	9 2	2.0358	2.0784						
1.55 1.9970 2.0364 1.55 1.9933 2.0365 2.1022 2.0771 1.55 2.0293 2.0406 2.0498 2.0685 2.158 625 1.9839 2.0341 2.0556 2.0987 2.0957 2.1322 875 2.0151 2.0138 2.0577 2.0510 2.0954 2.1255,2.0590 125 2.0094 2.0233 2.0339 2.0589 2.0526 2.0865 375 2.0196 2.0242 2.0557 2.0529 2.05270		27.0	.0.0406.	60	0.0258	0.0413	0.0932					
1.9933 2.0365 2.1022 2.0771 375 2.0293 2.0406 2.0498 2.0685 2.1258 1.9839 2.0411 2.0556 2.0987 2.0957 2.0957 1.875 2.0151 2.0138 2.0377 2.0510 2.0954 2.1255,2.0590 1.25 2.0094 2.0233 2.0339 2.0589 2.0526 2.0865 3.75 2.0196 2.0242 2.0557 2.0526 2.0570				Oc.	1.9970	2.0364						
37.3 2.0233 2.0498 2.0685 2.1258 625 1.9839 2.0341 2.0556 2.0987 2.0957 2.1322 85 2.0051 2.0510 2.0954 2.1255,2.0590 125 2.0094 2.0233 2.0339 2.0589 2.0526 2.0865 375 2.0196 2.0242 2.0557 2.0526 2.0570					•	2.0365	2.1022	2.0771				
925 1.9839 2.0341 2.0556 2.0987 2.0957 2.1322 875 2.0151 2.0138 2.0577 2.0510 2.0954 2.1255,2.0590 125 2.0094 2.0233 2.0339 2.0589 2.0526 2.0865 375 2.0196 2.0242 2.0557 2.0558 2.0525 2.0570				93	2.0406	2.0498	2,0685	2.1258				
.8/5 2.0151 2.0138 2.0577 2.0510 2.0954 2.1255,2.0590 125 2.0094 2.0233 2.0339 2.0589 2.0526 2.0865 2.0375 2.0196 2.0242 2.0557 2.0558 2.0525 2.0570			•	39	2.0341	2.0556	2.0987	2.0957				
. 125 2.0094 2.0233 2.0339 2.0589 2.0526 2.0865			2.01	51	2.0138	2.0577	2,0510	2.0954	2.1255,2	.0590		
375 2.0196 2.0242 2.0557 2.0558 2.0525 2.0570			•	94	2.0233	2.0339	2.0589	2.0526	2.0865)		
1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				96	2.0242	2.0557	2,0558	2.0525		2,0742	•	

WHITE DAK LABORATORY

HR1421	WTR1421 RUN 89	MACH 2.0			7 7	_																									
6 deg PHII 224.72 deg PG 14.75 psla 1.0000 123.66 deg PHII 224.72 deg PG 14.75 psla 1.0000 123.66 deg PHII 224.72 deg PG 14.75 psla 1.0000 123.66 deg PHII 224.72 deg PG 14.75 psla 1.0000 123.66 deg PG 14.75 psla 1.0000 123.66 deg PG 14.75 psla 1.0000 123.66 deg PG 15.1000 123.66 deg PG				299.7		_		2.4416	2.3678	2.450	2.4169	2.3578	2.3080	2.3142	2.3341		•		1.3435											7007	. 1334
TUNNEL T2 PRESSURE TEST		123.66		284.7	3, 1119	•	•	•	•		2.3124	2.3132	2.2813	2.2828	2.2053	2.2451			1.2185										2.5517		7.1636.3
11NAMEL 12 PRESSUR 6 deg PHI 224.72 deg PO 14.75 AVERAGED DATA SCATE 1. 19618 2. 6841 2. 9521 3. 1085 2. 6841 2. 9521 3. 1085 1. 7159 1. 8887 2. 0771 1. 7159 1. 8829 2. 0771 1. 7079 1. 9578 2. 1578 1. 7079 1. 9578 2. 1578 1. 9397 2. 0731 1. 9665 1. 8859 2. 0668 1. 7865 1. 8859 2. 0668 1. 7865 1. 8859 2. 0731 1. 9307 1. 9528 1. 9816 1. 9307 1. 9528 1. 9816 2. 4889 2. 1041 2. 4889 2. 1041 2. 4889 2. 1041 2. 4889 2. 1041 2. 4889 2. 4880 2. 4880 2. 4880 2. 4880 2. 4880 2. 4884 2. 4880 2. 4884 2. 4880 2. 4889 2. 4889 2. 4880 2. 4889 2. 4880 2. 4889 2. 4880 2. 4880 2. 4880 2. 4880 3. 4880 2. 4880	TEST () PS1#2(TC/	JR :	(PSI)	269.7	3.1604	•	2.0224					•	2.2098	2.1672	2.0856	2.1138	2.0994	(PSI)	1.0935								7 4884	2.5305	2.4823	0,01	7104.7
FSI CONFIGURATION FOR CONFIGURATION FIGURATION FIGURATI		14.75 SCALE		54.7	1085	•		. 02 12	.0771	1231	1578	.0889	.0668	•	•			NG PRESSURES	0.9685	•			•			0.5095		2.4461	2.4647	, , ,	7.4.7
6 deg PHI 224. 1 theta: 224.7 3.7865 3.1981 3.7865 3.1981 2.6841 2.6841 2.2886 2.0511 1.7126	TUNNEL ONFTGURATION	DATA	800	۲.	-													3	0.8435					•			•			00000	Z . 3636
6 deg 6 deg 13 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	PS1 C	224.72 de		239		3		_	<u>.</u>			-	-			. 2	<u>-</u>		0.7185			7 4805		2.3676	2.4134	0.3894					٠
6 de					3.1981 2.6841	2.0511	1.7526	1.7309	1.7126	1.6965	1.7079	1.7331	1.6869	1.7865	σ,	Ç,			6	+	(4	- 6	2.4982	2.3753	7	o o	•				•
	4	96 .		מו כל	O 6. C	, , ,	9 E	٩.0	•						•	•			٠, ٢	2.456	•	4	4.875	5.125	•	~	5,875 6 125	6.375	6.625	0.70	6/0.0

WHITE DAK LABORATORY

42.1 90	2.0																																	
W1R1421 RUN 90	MACH			-	. 1.0276													35)			•												<u>-</u>
	egf.		. 300.2	3.3969	2.8699	2.6009			2.9389	•		2.8100		2.8148		1.6194		1.3435) : :													2.4396		3.0141
=	10 124.00 dagf 1.0000		285.2	3.6790	2.7449	2.5325	2.6818	2.7547	2.8192	2.7936	2.7896	2.7475	2.7472	2.6597	2.7071	2.1916		1,2185													3.1116	3.0758,	3.0190	2.9484
1EST)) PSI#2(1C/1)	psia FACTOR: 1.0	(PSI)	270.2	3,7685	2.8436		2.5832	2.6014	2.6306 2.6920	2.7548	2.6789		2.5911	2.4964	2.5032	2.2411	(PSI)	1.0935)										3.0421	3.0783	3.0215	3.0135		2.9156
12 PRESSURE 1E PSI#1(PR/10)	PO 14.76 ps SCALE FA	PRESSURES	255.2	3.6843	.7623		. 3979	. 4608	2.4350 2.5252	.5488	.4546	.4160	.3811	2.3059		. 2500	WING PRESSURES	0.9685)			-					0.0619		3.0271	2.9751	2.9883	2.9253	2.9034	2.8802
TUNNEL. PSI CONFIGURATION		80DY			15 2											1 2	A	0.8435					•		3.0461	3.0257	9696.0	2.9251	2.9198	2.9265	2.9086	2.8976		2.8560
PSI CON	225.20 deg AVERAGED DATA		240.2	3.4255	2.5735	2.1738	1.3834	2.1711	2.1123	2.2494	2.218	2.127	2.0713	2.0830	2.0368	1.8611		0.7185					3.0572	2.9692	2.8731	2.9441	0.9023	2.8607	2.8477		2.8509	2.8169	2.8265	2.7980
	PHI		4.2075	3.0135	2.2824	1.9064	1.3882	1.8723	1.8423	1.8472	1.8521	1.7942	1.7740	1.7216	1.6748	1.8590		935			218	3.0062	609	508	896	649	874	8167		579	950	170	934	867
	deg		theta:															r/d: 0.5935	-	3.0300+	3.0218	.6 17970.	2.9609	3.0508	2.8896	2.8649	•	2.8		2.8	2.7	2.8	2.7934	2.7
W1R1421 RUN 90	14.97		2/d 0.5	- - - c	2.5	9 G	4.0		4 4 0 00	5.0			6.5	7.0	7.5	8.0		1. P/z		3.875 3.		3	4.625	4.875	5.125			5.875	6.125	6.375	.62	6.875	. 12	7.375
	AI PH																																	

WHITE OAK LABORATORY

STOCKE DESCRIPTION OF THE SERVICE SERVICES OF THE PROPERTY OF THE SERVICES OF

1421 91	2.0																																		
WTR142 RUN 9	igf MACH		322.3	2.2678,2.2565	1.9196, 1.8443	1.6504	1.7441	1.7237	1.7852	1.7241	1.8115	1.8158	1.7974	1.8274	1.8686	1.9031		1040	0000													.8203		1,7006	
ε,	T0 124.18 degF 1.0000		307.3	2.2768	1.7409	1.6372	1.7003	1.7446	1.7496	1.7784	1.7609	1.8122	1.8113	1.84C1	1,7931	1.7890			7												1.7847	-		1.7904	
TEST 0) PSI#2(TC/1)	psta FACTOR: 1	(PSI)	292.3	2.2913	1.7562	1.6083	1.6962	1.6856	1.7075	1.7480	1.8270	0/08.1	1.8257	1.0103	1.8185	1.8614	(PSI)	1 0935							•	•			1.7177	1.7944	1.8234	1.8602	1.8260	1.8266	
12 PRESSURE TEST PSI#1(PR/10) P	PO 14.75 po	BODY PRESSURES	277.3	2.2893 1	.7572	.6027	.6774	. 7301	.7139	. 7899		5507	. 8135 	50.0	9382	. 8593	WING PRESSURES	9685				•					0.7839		1.0358	1.8203	1.8760	1.8510	1.8577	1.8591	
TUNNEL PSI CONFIGURATION		008	6	2.2658 2	.7580	.6231	2.0527	. 7036	•	-	. 8063	- 1	- •	•		_	X	0.8435							1.7400	1.8032	0.7965	1.7777	1.8056	1.8301	1.8520	1.8702	1.8422	1.8671	
PSI C	247.32 deg Averaged data		262.		-	-	7	_	-	-	- •			-	-	-		0.7185					1.7679	1.7407	1.7582	1.7937	0.7951	1.7762	•	1.8442	1.8434	1.8318	1.8490	1.8457	
	Н		theta: 247.3 3.0517	2.2018	1.7755	1.6413	1.7030	1.7086	1.7205	1. /460	1.709	1.1323	1 8642	1.8912	1.8783	1.8271		0.5935	•	+	1.7202	_	1.7420	1.7388	1.7555	1.7651	o.	1.7636		1.8474	1.8067	1.8376	1.8406	1.8436	
W1R1421 RUN 91	-0.08 deg		z/d th 0.5	. .	9.5 .0 .0	3.5	4.0	4 . G !	4. 4 Ri 0	ь п о с	י סית) in	7.0	7.5	8.0		z/d r/d:	3.625 1.6887	875 1.6854	. 125	1.375 1.7644	1.625	1.875	5. 125		625 1.7803	5.875		3.375	3.625	5.875	. 12	.375	
	ALPH																		n	n	4	4	4	4	(J)	L)	K)	ירט	Φ (9	9	9	7	7	

WHITE OAK LABORATORY

	W1R1421 RUN 92			TUNNEL PSI CONFIGURATION	TUNNEL IGURATION	_	12 PRESSURE TE PSI#1(PR/10)	IEST) PSI#2(†C/1)	(1/1)			WTR 142 1 RUN 92	
-	4.92 d	deg	IHd	247.26 deg Averaged data		PO 14 SC	14.75 psta SCALE FACTO	psta FACTOR:	10 12 1.0000	124.37 degF	76	MACH	2.0
					800	BODY PRESSURES	JRES (1	(PSI)					
	p/z	theta:	247.3	262.3	~	277.3		292.3	307.3		322.3		
	6 O		3.0466										
	7.5	•	2.5618	2.6635	2	2.6901	.``	2.6518	2.5699	G1	2.4550,2.	. 1482	
	2.0		2.2128								2.0690,1.7419	7419	
	2,5		2.0014	2.0265	6	2.0225		1.9984	1.926	_	1.8808		
	ى د س د		1.7040	0111	•			,	1				
			1.7647	1.7710	-	. 7551		1.7464	1.7988	m	1.8343		
	0,4		•	2.0364	-	.8219		1.8644	1.8964	₩.	2.0136		
	4 0		1.7773	1.8126	-	.8769		1.8656	1.9394	₹	2.0292		
	4 3		1.7732	1.8121	-	.8594		1.8921	2.0064	•	2.0990		
	4.8		1.8017	1.8467	-	.9496		1.9411	2.0475	iC.	2.0230		
	5.0		•	1.9295	•	.9792		2.0551	2.025	ıo	2.1030		
	5.5		1.9285	1.9641	-	.9611	•	2.0377	2.0555	10	2.0795		
	0 .0		2.0117	1.9998	2	2.0231	-	2.0413	2.040	~	2.0449		
	6.5		2.0763	2.0376	2	2.0384	.,	2.0435	2.0731	_	2.0636		
	7.0		2.0743	2.0862	7	2.0286	•••	2.0069	2.0325	10	2.1136		
	7.5		•	2.0834	7	2.1510	••	2.0478	2.1050	0	2.0986		
	8.0		2.0129	2.0108	7	.0658	••	2.0618	1.8766	10	1.8854		
					3	WING PRESSURES		(PSI)					
	*/4	d. 0 5035	ŭ	7000	0.4.0	(9000	1000	•	6	1		
	C	; •	2		0.0433	•	200		•	6917.	1.3433		
	3.875 2.0	.0792+											
	4.125	2.0923	13										
	7	13351 2.0904	104										
	4.625	2.0817	7	2.1297									
	4.875	2.1427	7	2.C827									
	5.125	2.0577	7.	2.0554	2.1417								
	5.375	2.0610	0	2.1105	2.1526								
	~	.0319,0.0891	=		0.1156	0	. 1635						
	5.875	2.0329	6		2.0892								
	6.125				2.0975		1736	2.1474	4				
	6.375	2.099	-		2.1166		1376	2.1999	6				
	6.625	2.049	6		2, 1285		1779	_		2.215R			
	6.875	2.086	6		2.1437	8	1371			C	1383		
	7.125	2.091	,	2, 1057	2 1100	i 6	1386			•)		
	7.375	2.0920	Ç	2 1040	2 1334	, ,	1328	2 1345		2 1051	455		
)		>		7	į	240	-		1671.	4.1000		

WHITE DAK LABORATOR

Submitted the contract of the second second of the second

WTR1421 RUN 93	MACH 2.0				. 9228	.5185		•												ισ.		•											
	JegF		322.0		2.6416.1	2.2033,1			2.03/1	2 3984	2.4649	2.3856	2.4682	2.4402	2.3906	2.3964	2.4366	1.6244		1.3435												2 6182 2 4009	
	0 124.39 degF 000		307.0		2.9098		2.1510	.000	•		2.4205	2.4217	2.4041	2.4245	2.3931	2.4042	2.3562	2.0730		1,2185											9 6338	2 6183	
TEST) PSI#2(TC/1)	psia 10 FACTOR: 1.0000	(PSI)	292.0		3.0961		2.3155		7 1134	2, 1599	2.2147	2.2905	2.4290	2.3880	2.3682	2.3449	2.3248	2.3612	(PSI)	1,0935										2 6734	2 5899	2 5861	
12 PRESSURE TEST PSI#1(PR/10) P	14.75 SCALE	BODY PRESSURES (277.0		. 1895	•	.3840	. 02.00	.0270		1458	2620					. 3392	*	WING PRESSURES	0.9685					-			0.5915	c c	2 5300	2.5815	2 5 186	200
1UNNEL PSI CONFIGURATION	PO ATA	80Dv			6		2	·			7	2	7		2			7	3	0.8435						2.5760	2.5828	•	2.4934	•			٠
PSI CON	247.03 deg Averaged data		262.0		3.1605		2.3849	31 30 6	2.0313	2.046	2.057	2.101	2.190	2.198	2.198	2.283	2.365	2.2627		0.7185				2 5843	2,5361	2.4654	2.5299	0.5110	2.4641				200
	He		247.0	3.5458	2.9969	2.5623	2.3081	1.9515	•		1.9383	•	•	•		٠	2.3163	2.2717		935			.5702	2.3012 5310	5786	.4746	920	. 4898	583	47.34	4 102	7667	
	бөр		theta:																	r/d: 0.5935	2.5638+	5731+		- 7	2.57	2.47	N	2946.0	2.42		2.41		•
WIR1421 RUN 93	66 '6		p/z	s c	5.2	2.0	2.5		4	4	4.5	4.8	5.0	ម ភ	•	פי	, r	9.0		z/d r	ın	.875 2.	. 125	4.373 4.	4.875	5.125	.375	.625 2.	5.875		6.625		•

WHITE OAK LABORATORY

- 4	2.0																																	
WTR1421 RUN 94	JF MACH		322.4	2.8811,1.6310	2.3979, 1.2139 2.1393	2.3596		•		2.7400	2.8798	2.9208		2.9130	•			1 2425														7756		3.0834
-	T0 124.48 degF 1.0000		307.4	3.3338	2.4576	2.3033			2.9124	•			2.9102	2.9.30	2.8246	2.3600		7810													3, 1799	3, 1600, 2	3,1295	3.0549
: TEST 10) PSI#2(TC/1)	psta 1.C	(PSI)	292.4	3.6583	2.7452	2.3286	2.5504	2.6212	2.6727	2.8268	2.9286	7.8907	2 8385	2 7545	2.8272	2.7604	(PSI)	1 0935											3.1238	3, 1856	3.1509			3.0669
EL 12 PRESSURE TEST CON PSI#1(PR/10) P	PO 14.75 F	BODY PRESSURES (PSI)	277.4	3.8207	2.8826	2.4376	2.4840	2.5843	2.5944	2.7335	2.7846	2.7910	•	•	2.9017		WING PRESSURES	3 9685									0: 1481							3.0449
TUNNEL PSI CONFIGURATION	247.39 deg Averaged data	w.	262.4	3.7916	2.8859	2.4670	2.0219	2.4535	2.4773	2.5230	2.6240	2.6430	2 5748	2 6975	2.7527	2.5902		5 0 8435					ĵ.			3, 1562					e,		က	7 3.0288
<u>c</u>	PHI 247.3 AVER		247.4	3.5518	2.7339 2.7339				•		2.3365			•				5 0.7185			60	64	3.1685										7	
21 94	98 deg		theta:															r/d: 0.5935	3 1872+			3.19301				1	2.3772,0.	2.9849		e,	2.	2.	2.9614	2.9601
WTR142 RUN 9	ALPH 14.98		z/d 0.5	. — c	2.2.6	 	4.0	4	4.5	4 F	v v v	. ע	. 6	0.7		0.8		p/z		3.875	4.125	4.375	4.625	4.875	•	5.375	5.625	•	•		•	6.875	. 12	7.375

WHITE OAK LABORATORY

21 95	2.0																																							
WTR1421 RUN 95	MACH		8 776			2.2618,2.2636	_	1.7651		1.6579	.7616	.7418	.8041	1.7361	.8181	.8230	.8144	8385	8782		. 9005		2408	777	•												75		1.7694	
-	T0 124.77 degF 1.0000		329.8			2.2842 2		1.7453		1.6383	1.7141	1.7581	1.7589	1.7853	1.7673	1.8213	1.8245	1.8575	1.8060	1.8781	1.7933													•		1.8299	1.8316.1.8675		1.8187	
: TEST (0) PSI#2(TC/1)	psta FACTOR; 1.	(PSI)	314.8)		2.3009		. 1.7663		1.6142	1.7020	1.6923	1.7127	1.7534	1.8365	1.8148	1.8300	1.8267	1.7867	1.8254	1.8763	(PSI)	4	2000										1.7530	1.8297	1.8359	1.8740	1.8414	1.8527	
. T2 PRESSURE TEST IN PSI#1(PR/10) P	PO 14.74 P SCALE F	BODY PRESSURES (PSI	299.8			2.3028	-	1.7684		1.6124	1.6754	1.7335	1.7190	1.7964	1.8148	1.7720	1.8244	1.8322	1.8250	1.9532	1.8745	WING PRESSURES	, 968				•					0.8130		1.8432	1.8300	1.8804	1.8616	1.8726	1.8824	٠
TUNNEL PSI CONFIGURATION	69.78 deg Averaged data	B 0	284.8			2.2830		1.7688		. 6295	. 98 13	. 7024	. 7051	. 7401	. 8 1 2 6	. 8 182	.8119	.8227	.8991	. 9072	.8432	3	0.8435							1.7619	1.8119	0.8126	1.7974	1.8225	1.8418	1.8624	1.8848	1.8560	1.8866	
PSI	269.78 AVERAG		õ			7		-		-	-	-	-	-	_	_	-	-	-	-	-		0.7185	!				1.7889	1.7585	1.7652	1.8010	•	1.7942	1.8024	1.8512	1.8553	1 8442	1.8601	1.8647	
	РНІ		269.8	3.0805	2.6241	•	1.9408	1.7884	1.5481	1.6426	1.7092	1.7105	1.7216	1.7499	1.7768	1.8012	1.8408	1.8718	1.9033	1.8898	1.8403		. 5935			7484	1.7509	7596	7611	7628	1106	209	7778		8577	.8151	.8492	164	8554	
	deg		theta:																		-		r/d: 0.5	.7126+	+1601	_	7857!	1.7	1.7	1.7	<u>-</u>	.8020,0.8209	1.7		8.	-	7.8	1.846	- 8	
WIR 1421 RUN 95	-0.10		p/z	0.5	0.	- ·	5.0	2.5	0.6		0.4	4.	4. U	4. I	5.0 1	က က	6.0	6.5	7.0	7.5	8.0		J p/z	3.625 1.	875 1	. 125	.375 1.	4.625	4.875	•	.375	_	5.875	•		6.625	•	7.125	7.375	
	ALPH																																							

HITE OAK LABORATOR

	WTR 1421 RUN 96			TUNNEL PSI CONFIGURATION	TUNNEL	T2 PRESSURE TEST V PSI#1(PR/10) P	URE TEST R/10) PSI#2(TC/1)	(17)		WTR1421 RUN 96	
Ŧ	4.92	deg	I Hd	269 76 deg Averaged data		PO 14.74 SCALE	4 psia E FACTOR:	1.0000	7 degf	MACH	2.0
					BOL	BUDY PRESSURES	ES (PSI)				
	p/z	theta:	269.8	284.8	.,	299.8	314.8	329.8	344.8		
	0.5		3.6567								
	0.1		3, 1210								
	1.5		2.6269	2.6767	••	2.6463	2.5633	2.4448	2.3045,	2.2851	
	2.0		2.2727						.9330	1.8397	
	2.5		2.0569	2.0323		1.9892	1.9262	1.8241	1.7613		
	3.0		1,7533								
	3.5		1.7998	1.7880	•-	1.7271	1.6876	1.6996	1.7528		
	4.0		1.8318	1.9620	_	1.7643	1.8004	1.8465			
	4.3		1.8133	1.8071		1.8361	1.8198	1.9254			
	4.5		1.8100	1.8089		1.8357	1.8579	2.0258	2.0933		
	4.8		1.8511	1.8598	_	1.9402	1.9384	2.0458	2.0179		
	5.0		1.9059	1.96.1	-	1.9891	2.0667	2.0270	2.0975		
	S.S		1.9969	2.0186	-	1.9856	2.0536	2.0663	2.0803		
	0.9		2.0694	2.0406	.,	2.0522	2.0651	2.0675	2.0660		
	6.5		2, 1205	2.0703	.4	2.0710	2.0680	2.1086	2.0890		
	7.0		2, 1531	2.1473	٧,	2.0680	2.0296	2.0628	2, 1353		
	7.5		2.1106	2.1335	.4	2.1943	2.0804	2.1350	2.1280		
	8.0		2.0719	2.0680	7	2. 1060	2.1010	1.8901			
					7						
						ING PRESSU	KES (PSI)				
	J p/z	r/d: 0.5935	ស	0.7185	0.8435	0.9685	1 0935	935 + 2185	1 2425	<u>د</u>	
		*	ı) 	• • •				2	
	.875 2	. 1034+									
	4.125	2.1144	4								
	.375 2	. 15441 2.112	21								
	4.625	2.1004	Ā	2.1500							
	4.875	2.1307	7	2.1019		•					
	5.125	2.0686	9	2.0659	2.1301						
	5.375	2.0675	5	2.1165							
		2.0800,0.1127	7	0.1164	_	0.1688	88				
	5.875	2.0599	Ģ	2.0874							
				2.0843	2.1259		1,766 2.1	909			
	6.375		Q	2. 1313	2.1402	,		030			
	6.625	2.0847	7	2, 1304					-		
	6.875	2.1243	· (P)	2, 1230					37 2 2210		
	•	2.123	0	2, 1500) · · · · · · · · · · · · · · · · · · ·		
	•	2.1355	ı.	2.1504	2.1842	2.1876	76 2.1708	708 2.1508	2 1482	22	
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A CONTRACTOR DESCRIPTION OF THE STATE OF THE

	2.0																																					
WTR1421 RUN 97	MACH				5.2.2240	3, 1, 7606				_		1		_	_	•	•		•		• ·	i	. 3435															.5166
	JegF		344.7		2.2685	1.8783	1.6839		1.8448	2.3694	2.3616	2.4241	2.343	2.423	2.392	2.366(2.394	2.4664	2.4799	1.7469		•	-													2 5631		~
:	10 125.08 degf 1.0000		329.7		2.5715		1.8777		1.6554	1.9486	•	2.3408			2.4162	2.4182	2.4681	2.4283	•	2.0424			C917'												2.5716	2.5799	2.5690	2.5459
1ES1 3) PS1#2(1C/1)	psta Factor: 1.0	(PSI)	314.7		2.8472		2.1114		•	1.8/89	1.9348	2.0350	2.1840	2.3/23	2.3836	2.4082	2.4275	2.3917	•	2.4534 .	(PSI)	-	0000										2.5150	2.5768	2.5687	2.5864	2.5576	2.5573
12 PRESSURE 1ESI 1 PSI#1(PR/10) P	PO 14.74 ps SCALE F/	BODY PRESSURES (299.7	•	3.0587		2.2855	•	1 2 2 2	9240	. 983.3	. 99 13		. 2303		. 38 14	•		. 5642	. 4686	WING PRESSURES	2000				-			•		0.5484		2.5730		2.5916	2,5551	2.5720	
TUNNEL PSI CONFIGURATION		008					_	•		50	000					200				73 2	3	D 8435							2.5345	2.5634	0.5341	2.5240	•	2.5271	2.5549	2.5688		2.5824
PSI CO	269.73 deg AVERAGED DATA		284.7		3.1732		2.402	00000	2.0720	1.9403	2.0388	2.0194	2.0036	2.1844	9076 6	2.3/30	71.7	2.01.2	2.30	2.4373		0.7185	3				2.5873	2.5328	2.4711	2.5294	0.5267	2.4914	2.4875	2.5266	2.5314	2.5175	2.5501	2.5350
	114		269.7	3.7211	3.1508	2.7015	2.4409	2.0724	100.5	2 0723	27.0.7	2.0419	2 1164	2 2794	0 4 4 B	2 4773	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2.5041	0.01	2.4513		35			22	2.5633	181	.10	90	95	04	68		4984	63	59	19	4987
	бөр		theta:																			r/d: 0.5935	÷	5581+	2.5722	.60031 2.5	2.5281	2.5370	2.4808		4403,0.	2.438		•	2.4563	2.4959	•	•
WTR 1421 RUN 97	9.95		2/d 7	0.	5.	9.0		, u	. 4) c	4	4	ر ا			•		, r		2		2/9		875	4.125	7	4.625	4.875	5, 125		~	5.875	6.125	•	•	6.875	7.125	7.375
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21 98	2.0																																						
WTR1421 RUN 98	degf MACH		0	343.0		2 2440 2 1640	4.6440,2.1649	1.6441.1.6/93		1 9440	•	7.403/	2.20.3	2 7223	2 8410	2 8413	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2.63.0	2 0500	0.65.60				1.3435													97.0		2.9608
5	TD 125.23 d		0 000	0.000		2.7346		1.9824		1.8246		2 4772	2 6849	2.7691	2.7916	2.8656	2 88 16	2 9461	2 92 17	3 0119	2.2784		,	1.2185												3 0333	3.0435 3.0448	3 0502	3.0382
E TESF 10) PSI#2(TC/1)	psta FACTOR:	(PSI)	2 2 2	2		3.2009))	2.3647		1.9619		2.2058	2.3209	2.5153	2.7543	2.8188	2.8609	2.9040	2.8770	2.9457	2.9067	(PSI)		1.0935										2.9850	3.0612	3.0677	3.0951	3.0712	3.0698
L 12 PRESSURE TEST ON PSI#1(PR/10) P	PO 14.74 SCALE	BOOY PRESSURES	300 0)		3.5703		2.6712		2.2628 .	2.2389		2.2880	2.4676	2.5951	2.6971	2.8166	2.8920	2.9052	3.0604	2.9346	WING PRESSURES	6	0. 3003								0.0368		3.0873	3.0565	3.1228	3.0906	3.1108	3, 1211
TUNNEL PSI CONFIGURATION	70.04 deg AVERAGED DATA	ă	285.0			3.7829		2.8782		2.4712	1.9392	2.4205	2.3964	2.4401	2.5620	2.7235	2.8224	. 9023	2.9813	3.0092	.9348	•	90.436							3.0502	3.0954	0.0747	3.0655	3.0711	3.0633	3.0959	3.1184	3.1059	3.1294
PS	270.04 deg AVERAGED			9	2		6		2												-		7185					3.1447		•	3.0741	0.0611	3.0243	3.0074	3.0420	3.0423	3.0467	3.0678	3.0528
	PHI		theta: 270.0	5, 1133	4.427	3.7872	3.270		•					•		φ.				σ.	962			*	*	3, 1267	-	3.0892	3.0549	2.8445		,0.859	2.8185		2.8815	2.8568	2.9197	2.9308	2.9457
WTR 1421 RUN 98	14.96 deg			0.5	1.0		2.0	2.5	3.0	S	0.4	4.3	5.5	4 8	5.0	5.5	0.9		7.0	7.5	8.0		0:p/1 p/z	3.625 3.0831*	.875 3		.375 3.169	4.625	4.875	5.125	.375	5.625 2.7989	5.875	•	•	6.625	. 87	7.125	. 37
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WIR1421 RUN 99	2.0																															
W RUN	JF MACII		367.4	2.2560,2.2815	1.7620	1.6681	1.7771	1.8189	1.7442	1.8255	1.8208	1.8494	1.8837	1.8626	1.8996			1.3435												8840		1.7822
Ę	T0 125.53 degF .0000		352.4	2.2750	1.7447	1.6455	1.7264	1.7702	1.7925	1.7667	1.8302	1.8627	1.8111	1.8894	1.7928			1.2185											1.8450	1.8393, 1.8840	1.8353	1.8199
E TEST 10) PSI#2(TC/1)	psta Factor: 1.	(PSI)	337.4	2.3035	1.7689	1.6145	1.7134	1.7185	1.7569	1.8418	1.8377	1.8357	1.7915	1.8377	1.8832	S (PSI)		1.0935									-		-	-	-	1.8541
:L 12 PRESSURE TEST ON PSI#1(PR/10) P	PO 14.75 SCALE	BODY PRESSURES	322.4	2.3121	1.7740	1.6115	1.6818	1.7229	1.8017	1.8215	1.8282	1.8416	1.8355	1.9588	1.8819	WING PRESSURES	:	5 0.9685		•					0 0 0		1.8563	_	-	•	-	1.8956
TUNNEL PSI CONFIGURATION	92.45 deg AVERAGED DATA		307.4	2.2952	1.7795	1.6451	1.9042	1.7078	1.7443	1.8215	1.8163	1.8298	1.9139	1.9097	1.8445			5 0.8435				9		-	1.8168		: <u>-</u> -	<u>-</u>	-	-	<u>-</u>	1.8926
Ċ	PHI 292.45 deg AVERAGED		292.4 3.0968	2.6397 2.2344		1.5546 1.6522	1.7072	1.7262	1.7557	1.7833	1.8494	1.8787	1.9175	6	1.8422			5 0.7185		σ	, 01	-	-	-	5 1.8021		-	-	-	-	-	0 1.8682
21 99	10 deg		d theta:		າດເ	വറ	٥ ٣	, in	82	0 #	n 0	. LC	0	ស	c			r/d:			1.79891	-	-	-	1.7685	2	•	1.8702	-	-	-	1.8660
WTR142 RUN 99	· 0. 10		2/2	0.5	, 6, 6 5, 6, 6		4.4	₹ •	4	no n			7.6	•	9. 8			p/z	3.625	4 12R	4.375	4.625	4.875	5.125	5.375	5.875	6.125	6.375	6.625	6.875	. 12	7.375

WHITE DAK LABORATORY

1421	2.0																															
WTR 142 RUN	д масн		367.4	2.1574.2.4474	1.8160, 1.9772 1.6679	1.7168	2.0207	2.0559	1.9817	2.0614	2.0487	2.0730	2.1135	2.1028	1.8935		1 3435													. 2357		2.0970
(1)	10 125.59 degF 1.0000		352.4	2.2870	1.7132	1.5917	1.7873	1.9836	1.9996	1.9797	2.0441	2.0880	2.0386	2.1147	1.8750		1,2185	! !														2.1248 2
(E TEST (10) PSI#2(1C/1)	psta FACTOR: 1.	(PSI)	337.4	2.4197	1.8117	1.5821	1,6961	1.7851	1.9032	2.0099	2.0300	2.0381	2.0005	2.0418	2.0674	S (PSI)	1,0935													2.1724		
EL T2 PRESSURE TEST ION PSI#1(PR/10) P	PO 14.75 SCALE	BODY PRESSURES	322.4	2.5308	1.9019	1.6642	1.6/88	1.7428	1.8671	1.9342	2.0140	2.0266	2.0213	2.1513	2.0713	WING PRESSURES	0.9685							•	5 0.1220			.2	6			2.
TUNNEL PSI CONFIGURATION	292.37 deg AVERAGED DATA	_	307.4	2.6035	1.9763	1.7445	1.7476	1.7470	1.7985	1.9130	2.0154	2.0389	2.0993	2.0940	2.0460		35 0.8435				4	06				39 2.0765						
_	PHI 292.:		292.4 3.6186		2.2548 2.0408	1.7934	1.7999	1.7965	•	1.8883	2.0516	2.1157	2.1130	2.0797	2.0495		5 0.7185			5	,	3 2.0890		5 2.0851	0.0840			2.				
	5 deg		theta:					· •							••		r/d: 0.5935	.0635	2.0654+	2.0822 2 12851 2 0799		2.0893	2.0474		2.0810,0.0882	2.0412		2.1238		2.1104		
WTR 142	4.95		2/d 0.5	0.4	2.2.6		4 5 6.	4.5	44 r	0 K	0.9	6.5	7.0	7.5			p/z		.875	375	4.625	4.875	5.125	5.375	. 625	5.875	6.125	6.375	6.625	6.875	7.125	7.375

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SCORD RECEIVANT PRODUCTION OF THE PROPERTY OF

	W1R1421 RUN 2			PSI CONF	TUNNEL PSI CONFIGURATION	12 PRESSURE FEST PSI#1(PR/10) P	E FEST 10) PSI#2(1C/1)	(1)		WTR 142 RUN	- 0
FI .	9.95	deg	PHI	292.65 deg AVERAGED DATA	P0	14.76 SCALE	psta Factor: 1	T0 125.79 degF 1.0000	egf	MACH	2.0
					ROD	BODY PRESSURES	(PSI)				
	p/z	theta:	292.7	307.7	ë	322.7	7 7 2 2	363.7			
	0.5		4.2460		į			. 700	7.705		
			3.6522								
	÷.5		•	2.9813	8	2.7727	2.5023	2.2155	1.9527.2	6031	
	•		•					1	1 6049 2 0831	2.00	
	2.5		2.3912	2.2436	8	2.0437	1.8212	1 5854	. 4.27.7		
	•		2.0306								
	9.B		2.0540	1.9247	_	7062	1.5049	1 2240	7		
	•		2.0516	1.8811		6841	1.5090	1 7397			
	•		2.0206	1.8863	_	7078	1 5455	2 0 130	- 20 - 0		
			2.0044	1.8428	_	6570	1 6984	2.0155	2	•	
	•		2.0299	1.8594	. 🚅	7834	1 9432	2 2 4 7 9	2.4430		
	5.0		2.0671	1.9471		1 9182	0 1890	2010	2.1332		
	5.5		2.1432	2.1151	0	1346	2 2583	2 2021	2.2497		
	6.0			2,2350		2449	2 3067	2.307	2.2605		
	6.5		2.3982	•		2776	2 22 40	2.33/3	2.2882		
	7.0		•	•	v c	0000	2.3349	2.4003	2.3418		
	•		•	2.3633	, ,	. 2830	2.3000	2.3590	2.4056		
			00100	•	2.	. 4298	•	2.4364	2.4090		
) •		4.3569	2.3455	2.	3414	2.3302	1.9415	1.8696		
					3	WING PRESSURES	(PSI)				
	z/d r	r/d: 0.5935	5	0 7185	A 25	2000	•		1		
(7		÷) 1 - -		0.300	C 5 6 7	1.2185	1.3435		
က	.875 2	.4049+									
4	. 125	2.4879	6								
4	.375 2.	52571 2.4800	100			٠					
4	•	2.4756		2.5141							
4	•	2.4174		2.4800							
<u>4</u> 7	•	2.3548		2.3475	2.4152						
ζŢ	.375	2.3311		2.4647							
47	.625 2.	•		0.4618	0.4657	0.4377					
63	•	2.3268			2.4363						
9	i. 125				2.4884	2.4946	2 3905				
Φ		2.401	9	. 5263	2.5164		2 4648				
9	•	2.354	6	. 4987	2.5351	2.5534	2 469A	7 4377			
9	•	2.394	ņ	. 4966	2.5667	2.5238	2 5143	7.55.5	7079		
7	7	2.3811	-	. 5 155	2.5383	2.5408	2 4909	2.4560,2	40.40		
7	. 375	2.386	6	. 4863		2.5448	2 5067	2 4459	000		
						•	· · · · · · · · · · · · · · · · · · ·	0071	2.3695		

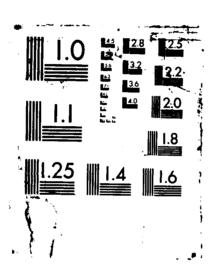
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HAT	WTR 1421 RUN 3	geb	IHd	PSI CONFI	TUNNEL T PSI CONFIGURATION 37 dea P0	12 PRESSURE 1EST PSI#1(PR/10) P 14.78 ps1a	IE TEST (10) PSI#2(TC/1) DSIA TO	125,88	90	WTR 142 t RUN 3	0
			•	AVERAGED DATA			JR :	00 .	, contract of the contract of	E CARE) ,
					800v	BODY PRESSURES	(PSI)				
	p/z	theta:	292.4	307.4	322.4	4.	337.4	352.4	367.4		
	0.0		4.2923								
	- -		3.6565	3.4265	3.0	3.0490	2.5857	2.1149	1.6953.2.	7837	
	2.0		•						.3556.2	. 2368	
	2.5		2.8319	2.5862	2.2	. 2449	1.8625	1.4787	1.1825	! !	
	3.0		•								
	3.5			2.1989	8	8523	1.4946	1.1904	1.5353		
				1.8751	1 .8	.8198	1.4840	1.5174	2.1452		
	4.3		•	2.1421	8 .	.8321	1.4221	1.9480			
	4.5		•	2.0970	1.7	.7671	1.5203	2.2862			
	4.8			2.1127	1.8	.8286	1.7288	2.3980			
	5.0		•	2.1928	8	. 8583	2.1308				
	5.5		•	2.2075	2.0	.0540	2.5434				
	0 .0		•	2.3621	2.4	.4697	2.6485				
	6.5		•	2.5545	2.5	5435	2.6901	2.7892	2.6778		
	7.0.		•	2.6587		5844	2.6758	2.7597	2.7714		
			۲.	2.6857	2.7	.7672	2.7591	2.8443	2.7972		
	8.0		2.7375	2.7161	2.6	. 6626	2.6417	2.1157			
					WING	WING PRESSURES	(184)				
	7/4	r/d: 0 5935	7	7185	30.40	3030	2000	2 0 1			
	625 2	;	1		0.0433		0000	6917.1	1.3433		
	.875 2	.5129+									
	. 125	2.9818	18								
	.375 3	.01041 2.966	664								
	4 625	2.9518	18	2.9893							
	•	2.8400	8	2.9603							
	. 125	2.4846	46	2.4749	2.8359						
	5.375	2.47	77	2.9393	2.9177						
	625 3	.0399,0.	31	0.9218	0.9411	0.8235					
	5.875	2.5260	90	2.9150	2.9429						
	6.125			2.9006	3.0139	2.9633	2.7797				
	6.375	2.6457	57	2.9609	3.0506	2.9644	2.8540				
	6.625	2.6209	60	2.9238	3.0810	3.0455	2.8968	2.8100			
	6.475	2.6766	99	2.9068	3.0938	3:0216	2.9737	2.8180,3.1573	3.1573		
	7.125	•	93	2.9070	3.0677	3.0530	2.9586	2.8592			
	7.375	2.7008	80	2.8463	3.0831	3.0408	2.9684	2.8541	2.7160		

WILLE DAK LABORATORY

21	2.0																															
WTR142 RUN	JF MACH		390.0	2.2577,2.3011	1.7681	1.6902	1.7950	1.7733	1.7640	1.8423	1.8354	1.8258	1.8541	1.8869	1.8670	1.000		1.3435										•		1.8906	:	1.7910
9	T0 126.48 degF 1.0000		375.0	2.2784	1.7497	1.6635	1.7439	1.7845	1.8074	1.7815	1.8371	1.8405	1.8705	1.8206	1.8927	1001.		1.2185												•	1.8451	1.8329
E TEST 10) PSI#2(TC/1)	psta Factor: 1.	(PSI)	360.0	2.3035	1.7740	1.6289	1.7305	1.71/9	1.7708	1.8526	1.8300	1.8509	1.8449	1.8020	1.8469 1.8854	. 600.4	s (PSI)	1.0935									1.7611	1.8400	-	-	-	1.8619
L 12 PRESSURE TO DN PSI#1(PR/10)	PO 14.80 SCALE	BODY PRESSURES	345.0	2.3143	1.7828	1.6199	1.6990	1.7375	1.8130	1.8321	1.7914	1.8419	1.8540	1.8439	1.96/8 1.8841		WING PRESSURES	0.9685			٠	•			0.8247		-	1.8396	1.9029	1.8740	1.8912	1.8923
TUNNEL PSI CONFIGURATION	14.97 deg Averaged data	Ĭ.	330.0	2.3073	1.7890	1.6460	2.0530	1.7212	1.7557	1.8339	1.8407	1.8304	1.8440	1.9255	1.9138		_	0.8435						1.7/93 1.8286	0.8152	1.8011	1.8293	1.8552	1.8796	1.8988	1.8714	1.8992
PS	PHI 314.97 deg Averaged (2.2497 1.9686	.8126	. 5639 . 6681	7138	7390	. 7688	. 7999	8254	.8626	.8892	σ,	.892/ 8455			0.7185			_	1.8194	1 7829	1 N 132	2018 C	1 7983	1 8095	1 14/11/	111H .	11,44		ī.
	бер		theta:		•			-	-	-	-	_	<u>-</u>	•		-		1 0 5935	• •	15.1	E 6	€ e	 ज									
WIR 1421 RUN 4	-0.09		b/z	c		0 0 0	0.4	ະ 4 ບໍ່ຄື	· *	ۍ د		C 9	s ÷	٠.	:																	

SURFACE PRESSURE MEASUREMENTS ON A HIGHLY SMEPT DELTA HIMMED HIND TUNNEL.. (U) MAYAL SURFACE MEAPONS CENTER SILVER SPRING ND A S COLLIER ET AL. AUG 86 NSMC/NP-86-336 F/G 1/1 AD-R198 972 2/3 UNCLASSIFIED



RUN 5	deg PH1	PSI CONFIG 315.21 deg AVERAGED DATA	URATION PSI#1(PR) PO 14.81 SCALE	PS1#2(Te	126.68	RUN (
			BODY PRESSURES	s (PSI)		
· ·	theta: 315.2 3.4848	330.2	345.2	360.2	375.2	390.2
1.5		2.4689	2.3783	2.2661	2.1499	.0526
		1.8799	1.7914	1.7147	1.6387	L.
	1.7396	1.6710	1.5670	1.5110	1.5507	1 7537
		2.0332	1.5979	1.6223	1.7935	1.9461
	1.7435	1.6667		1.6761	1.8334	1.9296
	1.7744	1.7140	1.7944	1.8315	1.9336	1.9165
	1.8136	1.8229	1.8660	1.9332	1.9147	1.9945
		1.9321	1.9333	1.9648	1.9775	1.9875
		1.9330	1.9423	1.9689	2.0343	2.0194
	1.9831	1.9919	1.9310 2.0568	1.9276	1.9795	2.0554
		1.9426	1.9773	1.9762	1.8406	1.8735
•			WING PRESSURE	S (PSI)		
p/z		0.7185 0	.8435 0.9685	1,0935	1 2185	+ 2.4.0
3.625 1.964	643*			•	. × .	. 44 5
. 125	<u>, ``</u>		•			
.375 2.	05051 2.0012					
4.625	2.0156	2.0483				
4.875	2.0114	.0168				
5.125 F 27E	1.9817	.9806	.0113			
3/3	- (.0219	0454			
. 625 4. 875	0435, 0. 0343	0.0250	.0336 0.0478			
6.125	90706	20032	0065	(
6.375		0834	777	O (
6.625	2.0265	0836	0078			
6.875		0711	1151	,	2.08/0	
7.125		8680	0849		7.0847.2	7.1750
7.375		0789	. 1111 2. 1108	2.0798	2.0489	2 0160

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12	2.0																																				
	MACH		390. 1		1.3712,3.3779	1.0708,2.7512		1, 1519	1.4149	1.4325	1.5099	1.5902	1.8221	1.9362		2.0725	2.1066	2.0723	1.7711			1.3435					•								181		4000
•	T0 126.87 degf 1.0000		375.1		1.5839	1 0604		0.8954	1.2727	1.6146	1.7437	1.7736 . 1	1.7838	2.0478	2.1561 2				.8912			1.2185												2.5234	2.5228,3.1481	2.5627	0010
E TEST 10) PSI#2(TC/1)	psta T	(IŚd)	360.1		1.9579	1.3601		1.0211	1.0567	1.1259	1.2404	1.3915	1.6485	1.9675	2.0637	2.1468	2.1909	2.3000	2.1992	S (PSI)		1.0935											2.6098			ö	
IEL 12 PRESSURE TEST TON PSI#1(PR/10) P	PO 14.81	BODY PRESSURES	345.1	1	2.4036	1,7152		1.3643	1.3092	1.3020	1.2433	1.2982	1.3215	1.3124	1.7292	2.0510	2.1476	2.3579	2.2067	WING PRESSURES		15 O. 9685						9		0.5700							
TUNNEL PSI CONFIGURATION	315.08 deg Averaged data		330.1	1	2.8220	2.0892		1.7338	1.9997	1.6661	1.6144	1.6177	1.6810	1.6526	1.5650	1.5326	1.8358	2.0524	2.0512			0.7185 0.8435				6533	5596		2.		2.3238 2.714					2.2337 2.6537	
	PHI 31		a: 315.1 4.3532	3.7780	3.1854	2.4468	2.0648	2.0482	2.0324	2.0140	1.9952	2.0136	2.0110	2.0244	1.9964	1.9560	1.9035	1.8643	2.0544			0.5935		7 6 15 7	2,6061			.8282 1.		.9538 0.	.9694 2.	2.					
WTR1421 RUN 7	14.98 deg		z/d theta 0.5	0.5	ب رون د			3.5	4.0	£.3	4.5		5.0	•		6.5	•	7.5	0.8		7	2/0 r/0:	7 070.	2.0455+	375 2 66781	.625	.875 2	. 125	. 375	.625 2.9329,0	-	6. 125	. 375	. 625 2	. 875 2	7.125 2.	275
	ALPH																					•	. •		•	٠	•					-	-	•	_		•

WHITE DAK LABORATORY

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	WTR 1421 RUN 8			PSI CONF	TUNNEL T	T2 PRESSURE TEST PSI#1(PR/10) P	TEST)) PS1#2(TC/1)	5		WTR 142 1 RUN B	- a
Ē	-0.07	deg	PHI	337.69 deg Averaged data	P0	14,85 pr	psta FACTOR: 1	T0 127.88 degF 1.0000	PQF.	MACH	2.0
					80DY	BODY PRESSURES (PSI)	(PSI)				
	_	theta:	337.7	352.7	367.7		382.7	397.7	412.7		
	6 - 0 -		3, 1256								
	- <u>-</u>		2.2549	2.3075	2.3	2.3155	2.3083	2.2780	2.2565,2.	. 3201	
	2.0		1.9756						٠.	.8849	
	6, c		1.8206	1.7957	1.1	. 7856	1.7775	1.7565	1.7745		
) ()		1.5/10		•	,	, , , ,				
	e .		1.6/26	1.6549	Ø.		1.6464	1.6801	1.7081		
				1.8522		821/	1.7462	1.7604	91.8		
	4 4 5 4		1.7570	1.738	7.1	62//	1.7281	1.8032	1.7848		
			7799	1 7657	· ~	2007	1 7830	1.000	1.6503		
			1.8110	1 8465		8449	1.8669	1 7891	1 8573		
			1.8357	1.8524	7.1	7921	1.8392	1.8427	1.8430		
	0.9		1.8765	1.8394	60,	8525	1.8526	1.8390	1.8276		
			1.8889	1.8280	60.	8534	1.8396	1.8704	1.8493		
	7.0		1.9281	1.9191	4.8	8235	1.7723	1.7895	1.8723		
	7.5		1.8884	1.9074	1.9	9636	1.8229	1.8788	1.8469		
			1.8477	1.8501	8.	. 8957	1.8970	1.7962	1.9030		
					DNIA	WING PRESSURES	(PSI)				
	b/z	r/d: 0.5935	ស្ថ	0.7185	0.8435	0.9685	1.0935	1,2185	1,3435	,-	
	-	•9									
	-	.7555+									
	4.125	1.7836	91								
	4.375 1	84451 1.7905	905								
	•	1.7966	99	1.8462							
	4.875	1.7933	5	1.7959							
	•	1.7941	-	1.7958	1.7940						
			ស្ដា	1.8242	1.8426						
	. 625	8326,0.	1	0.8243	0.8222	0.8300					
	•	1.7801	-	1.7953	1.8033						
	6. 125			1.8049	1.8252	1.8564	1.7563				
	•	1.8697	71	1.8670	1.8494	1.8366	1.8416		-		
	6.625	1.8223	6	1.8722	1.8759	1.8985	1.8487	1.8390			
	.87	1.8557	1.	1.8517	1.8969	1.8696	1.8825	1.8399	1.8939		
	7.125	1.8551		1.8710	1.8665	1.8844	1.8590	1.8409			
	7.375	1.8608	8	1.8738	1.8991	1.9052	1.8603	1.8233	1.7786	•	

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WTR1421	MACH		412.6	1.7440,3.1566	1.4541	1.6427	1.8172	1.8387	1.7498	1.8337	1.6340	1.6356	1.8967	1.8659	1.7708		1.3435											. 3955		5686.1
9	10 128.19 degf 1.0000		397.6	1.7720	1.3636	1.3217	1.6689	1.8151	1.8589	1.8423	.1.9368	1.9522	1.8782	1.9324	1.7473		1.2185										•			7.0140
E TEST 10) PS1#2(TC/1)	psta FACTOR: 1.	(PSI)	382.6	1.8857	1.3849	1.1460	1.2005	1.4368	1.6424	1.8069	1.8835	1.6931	1.8132	1.8667	1.8989	(PSI)	1.0935												2.1132	
EL 12 PRESSURE 16 ION PSI#1(PR/10)	PO 14,88 SCALE	BODY PRESSURES	367.6	2.0445	1.4885	1.2061	1.1822	1.1345	1.2127	1.2802	1.5752	1 7907	1.7862	1,9560	1.8977	WING PRESSURES	5 0.9685			•	c	•	2 0.0619		. 2		2	κi (i .
TUNNEL PSI CONFIGURATION	337.62 deg Averaged data		352.6	2.2435	1.6600	1.3850	1.8124	1.2661	1.2629	1.3214	1.3074	1.3802	1.7230	1.7559	1.6889		85 0.8435			60	32 2.0626		Ö	8	. 2		~	6		,
	PHI 337.		337.6 3.4370	2.9300 2.4380	1.6733 1.6733	1.5861	1,5534	1.4927	1.5008		1.4889		1.6313	1.6710	1.6820		0.5935 0.7185	2.0755	7	2.0890 2.1209		i	Ö	٠	. 2		ä		9569 2 1097	N
121	.92 deg		/d theta:	o ni c	ن د ن د	. .	o e	יא י	89,	0,	e c	ع، ز	2 0	ស	0.		r/d: 5 1.9544*		2.12461				2.2671.0.	-	•	CA ·	_	_ ,		<u>-</u>
WIR 142 RUN	.e.		2/2	<u>-</u> - c	i ci c	ה הי	4 4	•	4	ស (ກ່ ຜ	ی و	, ~	7.	œ		z/d 3.625	4.125	4.375	4.625	5, 125	5.375	5.625	5.875		•	6.625	6.875	7. 125	?

PARTIA MESERA DEFENSA EUROPESSE DE LE CONTRACTOR DE LA PROCESSO DE

WHITE OAK LABORATORY

12	2.0																																						
WTR142 RUN 1	degF MACH		4:2 9			1.4287,3.7391	1.2089,3.0723		1.3226	1 2049	1 0221	- TTO:- C	. 62.63	1 0619	1.2361	1.5225	1.6882	1.6661	1.606A	1.6386		•	1.3435													6123	67/0:	2.1211	
(2)	T0 128.35 de 1.0000		397 9)		1.3913	0.9124	77.6.0	0.8335	1.1454	1.2524	1.2770	1 2908	1.2746	1.4288	1.6765	1.6938	1.5613	1.7082	1.6233			1.2185				•								2 2505	C	2,2516	2.2510	
TEST 0) PSI#2(JC/1)	psta FACTOR: 1	(PSI)	382.9			1.5224	0.9949		0.6745	0.8884	0.9597	1, 1337	1.4213	1.6187	1.5655	1.4416	1.5561	1.5912	1.6815	1.8050	(PSI)	•	1,0935		•								2.1908	2.2835	2.3234	2 3722	2.3431	2.3709	
T2 PRESSURE TO PSIM1(PR/10)	PO 14.89 PO SCALE FA	BOOY PRESSURES	367.9		9	ECOR.	.2298		. 9037	.8430		0.8805	.9801	.0880	.3787	.5122	.5878	. 6969	. 8040	. 8010	NG PRESSURES	9000	C008.0								0.2344		2.3260	2.3171	2.3829	2,3326	2.3421	2.3501	
TUNNEL PSI CONFIGURATION	DATA	. 800			1640	-	5503	•			.1400			-	-	1 12	-	-	-	2414 1.	NIA	0 20 20							2.2233	2.2763	0.2668	2.2194	2.1844	2.1410	2.0386	1.9857	1.8901	1.9279	
PSI C	337.95 deg Averaged data		352.9		r	N	<u>-</u>		•	-	-	1.0	90°+	-	-	1.1057	1.19	1.46	1.64	1.24		0.7185					2.2621	2.2190	1.7846	2.0878	0.9814	1.8209	1.6539	1.5544	1.4501	1.4477	1.5287	1.4705	
	PHI		ຕ 	3.5883	5.0399 5.5359			1.5809	1.5665	1.5208	1.4925	1.4482	1.4551	1.4444	1.4067	1.3831	1.3263	1.2792	1.2074	1.2219		0.5935			\sim	2.2231	2.2164	2.2243	1.7827	1.7091	.0.6929	1.6086		1.6487	1.6625	1.7276	1.7192	1.7001	
WTR1421 RUN 11	14.94 deg		z/d theta	o.s.	 	2.0	2.5	3.0		0.4	•	5.5	•		5.5 .5	•	. 5 . 5	0.7	5.7			z/d r/d: (25 1.9469*	.875 1.9475+	. 125	2.26871			. 125		2.7083	875	125	375	625	875	12	375	
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WTR 142 RUN 1	MACH		435.2	2.2528,2.3370 1.9126,1.8936	1.7773	1.7040	1.8046	1.8616	1.7766	1.8635	1.8412	1.62/3	1.8599	1.8355	1.8981		1.3435													.8941		1.7893
:	T0 128.43 degF 1.0000		420.2		1.7563	1.6880	1.8140	1.8111	1.8288	1.7897	1.8423	1 8640	1.7827	1.8682	1.7916		1.2185	-												٦.	1.8225	1.8172
E TEST 10) PSI#2(TC/1)	psta FACTOR: 1.0	(PSI)	405.2	2.3065		1.6617	1.7350	1.7541	1.7894	1.8736	1.03/0	1.8344	1.7610	1.8119	1.9004	s (PSI)	1.0935										-	1.8388	1.8424	1.8737	1.8357	1.8437
L 12 PRESSURE TEST ON PSI#1(PR/10) P	PO 14.88 SCALE	BODY PRESSURES	390.2	2.3141	1.7874	1.6480	1.7790	1.7566	1.8354	1.8489	1.793	1.8455	1.8101	1.9535	1.8993	WING PRESSURES	0.9685	•			•	-			0.8282		-	-	-	-	_	1.8815
TUNNEL PSI CONFIGURATION	360.23 deg Averaged data	•	375.2	2.3058	1.7945	1.6690	1.7411	1.7371	1.7690	1.8484	1 8405	1.8244	1.9049	1.9046	1.8531		15 0.8435				Ξ.				0	-	-	-	•••	-	_	1.8881
-	PHI 360.3		360.2 3.1274	2.2479 1.9787	1.5740	1.6804	1.7455	1.7568	1.7811	1.8102	2789	1.8844	1.9161	1.8869	1.8508		35 0.7185		0	021	-	-	-	-	Ö	-		-	<u>-</u>	<u>-</u>	-	566 1.8653
421	-0.08 deg		/d theta:	j rui Oin	. O m	r 0	· 6.	ري. ا	∞ . (о [,] п	; c	, ru	0.	ĸ.	•		r/d:	5 1.7761*		1.85031	-	-	-	-	1.8409.0	5 1.7792	•	-	•	- 1	-	æ. -
WIR 142 RUN I	0- Hd		0.0	010	אומיני		4	•	₹ (א מע	י ע	9	7	7	65		p/z	3.625	4.125	4.375	4.625	4.875		5.375	•					6.875	•	

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Ŧ	WTR1421 RUN 13 4.93	őe p	PHI	PSI CONF	TUNNEL URATION PO	12 PRESSURE TEST PSI#1(PR/10) P 14.89 ps18	RE TEST (10) PSI#2(TC/1) psia T0	128.57	deaf	WTR1421 RUN 13 MACH	0.
		•		AVERAGED DATA		SCALE F.	FACTOR:	2			•
					BODY	BODY PRESSURES	(PSI)				
	p/z	theta:	360.1	375.1	38	390.1	405.1	420.1	435.1		
			3.0796								
) u		2.6320								
			2.2048	2.1760		2.1176	2.0661	2.0179	1.9889,2.	. 6883	
	2.0		1.9236						1.7201,2.1843	1843	
	2.5		1.7601	1.6867	-	. 6459 .	1.6315	1.6124	1.6505		
	0.6		1.5015								
	ຕ ຕ		1.5799	1.5494	-	5102	1.5337	1.6377	1.6694		
	0 4		1.6206	1.7536	-	5834	1.6663	1.7311	1.8198		
	4.3		1.6175	1.6047	<u>-</u>	.6729	1.6723	1.7588	1.8025		
	4.5		1.6128	1.6000	-	6405	1.6855	1.7952	1.8535		
	4 .8		1.6336	1.6434	-	. 7552	1.7487	1.8185	1.7823		
			1.6686	1.7309	-	. 7698	1.8401	1.7876	1.8675	•	
	5.5		1.7327	1.7741	-	.7479	1.8223	1.8396	1.8546		
	•		1.7708	1.7459	-	. 7907	1.8300	1.8439	1.8565		
	6.5		1.7735	1.7261	-	. 7887	1.8142	1.8748	1.8693		
	7.0		1.7834	1.7923	-	. 7399	1.7405	1.7815	1.8767		
	7.5		1.7461	1.7872	-	. 88 18	1.7844	1.8586	1.8381		
	8.0		1.7323	1.7377	7.7	.8252	1.8285	1.8046	1.8866		
					NI A	WING PRESSURES	(ISd)				
	ı p/z	r/d: 0.5935	135	0.7185	0.8435	2 2 2	1.000	7. t.	1070		
		5) !)		200		. 0460		
	875	7896+									
		1.8190	061								
	375 1	87161 1.8	1.8207								
	.625	-	161	1.8729				•			
	4.875	1.8292	192	1.8356							
		1.8354	154	1.8369	1.8298						
	•	1.8243	43	1.8614	1.8740						
	625 1	.8822,0.8696	96	0.8613	0.8588	0.8628					
	5.875	1.8186	98	1.8350	1.8359		•				
	6, 125			1.8449	1 8648	1 8957	1 7979	ď			
		-	9000	1 0006	000	0000	167.	n •			
	מינים ש) i.	D (0808.	1.8902	1.8720	1.8804				
	•	1.8568	89	1.9103	1.9148	1.9351	1.8870	-			
	•	1.8875	175	1.8861	1.9334	1.9058	1.9206	-	1.8974		
	7.125	1.8807	107	1.9039	1.9013	1.916.1	1.8846	-			
	7.375	1.8814	114	1.9011	1.9287	1.9259	1.8833	-	1.8246		

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	֚֡֝֝֝֝֝֡֜֝֝֝֝֝֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֡֓֜֓֓֡֓֜֓֓֡
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WTR 142 ! RUN 14	2.0																																	
WTR	DF WACH		435.0	1.7905, 3.1514	1.5864, 2.5675 1.5567	1.6271	1.7548	1.7285	1.7724	1.7651	1.7540	1.7312	1.7228	1.7136	1.6734	667/:		1.3435														.0063		1.8526
2	T0 128.52 dagf 1.0000		420.0	1.7788	1.4700	1.5316	1.6465	1.6839	1.7032	1.6793	1.7476	1.7374	1.7643	1.6519	1.7117	6/00.1		1,2185													1.9260	1.9212,2.0063	1.9067	1.8871
TEST () PSI#2(TC/1)	psta T FACTOR: 1.0	(PSI)	.405.0	1.7979	1.4204	1.3539	1.5301	1.5557	1.5855 1.6520	1.7499	1.7378	1.7420	1.7123	1.6339	1.6870		(isa)	1.0935											1.8514	1.9366	1.9335	1.9649	1.9236	1.9275
T2 PRESSURE TEST	PO 14.89 PE SCALE F/	BODY PRESSURES (390.0	1.8375	1.3874	1.1993	1.2575	1.3729	1.3709	1.5799	1.5843	1.6531	1.6824	1.6527	1.8064		WING PRESSURES	0.9685			-						0.9067	•	1.9577	1.9329	1.9870	1.9552	1.9635	1.9692
TUNNEL CONFIGURATION	59.96 deg Averaged data	100	375.0	. 9378	. 4400	. 2 109	.7388	. 1691	1199	. 2513	. 4067	. 4661	. 5026	. 6092	.6274	. 100	3	0.8435							1.8798	1.9237	0.9143	1.8912	1.9318	1.9498	1.9681	1.9840	1.9487	1.9714
PSI	359.96 c			-	-	-	-			•	-	-	-	-		•		0.7185					1.9220	1.8892	1.8563	1.9189	0.9134	1.9014	1.8959	1.9525	1.9377	1.9076	1.9137	1.8908
	PHI DE		theta: 360.0	2.4937	1.7685	1.2984	•	•	1.2054	1.1918	1.1871	1.2461	1.3518	1.4294	1.4347	7		d: 0.5935	1.7913*	.7893+	-	92151 1.8553	1.8894	1.8799	1.8552		.0542,0.8928	1.8403		1.9001	1.8330	1.8472	1.8277	1.8187
WTR 142 1 RUN 14	9.92 deg		z/d 0.5	c - ri c	2 2 2 2 70 0	9.6 0.8	4.0	<u>ه</u> .	4 4 U B	5.0	3.5	0 .9	ម	7.0	ر د ر	9		z/d r/d:	3.625 1.79		. 125	.375 1.	4.625	4.875	•		.625 2	5.875	6.125	6.375	6.625	6.875	•	7.375
	ALPH																																	

WHITE OAK LABORATORY

SSURE TEST (PR/10) PSI#2(TC/1) -91 ps1a ALE FACTOR: 1.0000 URES (PS1) 405.6 420.6 435.6 1.0804 1.3123 1.46012 1.0056 1.3629 1.46012 1.0058 1.3359 1.46013 1.0508 1.3359 1.46013 1.0508 1.3359 1.46013 1.2356 0.9495 1.4603 1.2452 0.8901 1.4728 1.1890 1.0214 1.4029 1.2452 0.8901 1.4309 SURES (PS1) 9685 1.0935 1.2185 1.34 9509 1.8666 9287 1.9510	WHITE DAK LABDRATORY TUNNEL 12 PRESSURE FEST TUNNEL 12 PRESSURE FEST TUNNEL 12 PRESSURE FEST TUNNEL 12 PRESSURE FEST TOWNER CONFIGURATION PSIMILPRIA (PR/10) PSIMILPRIA (PR/10) BODY PRESSURES (PSI) GO. 6 375.6 390.6 405.6 405.6 420.6 435. 390.6 405.6 405.6 420.6 435. 390.6 405.6 405.6 420.6 435. 390.6 405.6 406.6 435. 390.6 405.6 406.6 406.6 435. 406.6	TUNNEL TO PRESSURE TEST TOWNEL TO PRESSURE TEST AVERAGED DATA BODY PRESSURES (PS1) THORAS: 360.6 AVERAGED DATA BODY PRESSURES (PS1) THORAS: 360.6 1.5000 1.50	TUNMEL T2 PRESSIBE TEST TOWARL T2 PRESSIBE TEST AVERAGED DATA AVERAGED DATA AVERAGED DATA AVERAGED DATA BODY PRESSIBE FACTOR: 1.0000 1.6080 1.		WTR1421 RUN 15	MACH 2.0			3.7228	3.0448					•				•			92	•										
WHITE OAK LABORATORY TUNNEL T2 PRESSURE TEST 60.60 deg AVERAGED DATA SCALE FACTOR: 1.0000 BODY PRESSURES (PSI) 375.6 390.6 405.6 420.6 1.6080 1.4584 1.4543 1.525 1.0979 0.9778 1.0056 1.382 0.7788 0.7046 1.0056 1.382 1.111 0.979 0.9778 1.0549 1.235 0.7788 0.9778 1.0549 1.235 0.7995 1.1823 1.1189 1.121 0.9641 1.2843 1.2453 0.890 1.3075 1.3844 1.2453 0.890 1.3075 1.384 1.2450 0.890 1.3075 1.384 1.2450 0.890 1.3075 1.384 1.2450 0.890 1.3075 1.384 1.2450 0.890 1.3075 1.384 1.2450 0.890 1.3075 1.384 1.2450 0.890 1.3075 1.384 1.2450 0.890 1.3075 1.384 1.2956 0.990 1.4572 1.8871 1.9509 1.8666 2.5020	TUNNEL T2 PRESSURE TEST TUNNEL T2 PRESSURE TEST PSI CONFIGURATION PSI # 1 (PR / 10) PSI # 2 (TC/1) PHI 360.60 deg	WHITE OAK LABGRATORY TUNNEL T2 PRESSURE TEST TUNNEL T2 PRESSURE TEST TUNNEL T2 PRESSURE TEST TUNNEL T2 PRESSURES (PS1) TO	WHITE OAK LABORATORY TUNNEL T2 PRESSURE TEST TUNNEL T2 PRESSURE TEST AVERACED DATA SCALE FACTOR: 1.0000 AVERACED DATA SCALE FACTOR: 1.0000 AVERACED DATA BDDY PRESSURES (PS1) 2.7036 1.6080 1.4584 1.5084			gF		435.6	1.6345	1.4601	1.4612	1.5242	1.5115	1.4039	1.4619	1.4541	1.4327	1.3548	1.2662	1.4309		1.34) 										25.42
WHITE OAK LABORATORY TUNNEL T2 PRESSURE TEST FSI CONFIGURATION PSIMI(PR/10) PSIM2(TC 60.60 deg AVERAGED DATA SCALE FACTOR: 1 BODY PRESSURES (PSI) 375.6 390.6 . 405.6 1.6080 1.4584 1.4543 1.0979 0.9568 1.0804 0.7288 0.7046 1.0056 1.7111 0.8094 1.0508 0.7288 0.7046 1.0056 1.7111 0.8094 1.0508 0.7288 0.7046 1.0508 0.7288 0.7046 1.0508 0.7288 1.1823 1.2356 1.1941 1.2843 1.2356 1.3075 1.3844 1.2452 1.3853 1.3844 1.2452 1.3853 1.3844 1.5102 1.4572 1.4886 1.5102 1.4890 1.4890 WING PRESSURES (PSI) WING PRESSURES (PSI) 2620	WHITE OAK LABORATORY TUNNNEL T2 PRESSURE TEST FSI CONFIGURATION PSIMI(PR/10) PSIM2(TC PHI 360.60 deg AVERAGED DATA SCALE FACTOR: 1 3036 13036 13036 1.6080 1.4584 1.4543 1.0979 0.9568 1.00979 0.9568 1.00979 0.9568 1.0094 1.0221 9372 0.7788 0.9778 1.0044 0.7788 0.9778 1.0044 1.0549 1.0549 1.0549 1.0549 1.0549 1.0549 1.0549 1.0549 1.0549 1.0549 1.1890 1.1890 1.2403 1.1890 1.2403 1.2	## HITE OAK LABORATORY TUNNEE T2 PRESSURE TEST PSI CONFIGURATION PSIMIPER TO PSIM2(TC TOWNEE T2 PRESSURE TEST AVERAGED DATA SO.60 dag AVERAGED DATA SO.6 405.6 2.7801 2	WILTE OAK LABORATORY WILT 121 RUN 15 FSI CONFIGURATION PSIMIPPR/10) PSIMICTC 14.95 deg PHI 360.60 deg PO 14.91 psia AVERACEO DATA SCALE FACTOR: 1 1.00 1.3778 1.0979 0.9568 1.0804 4.00 1.0624 1.0024 1.0024 4.00 1.0624 1.0024 1.0024 4.00 1.0024 1.0024 1.0024 4.00 1.0024 1.0024 1.0024 4.00 1.0024 1.0024 1.0024 4.00 1.0024 1.0024 1.0024 4.00 1.0024 1.0024 1.0024 4.00 1.0024 1.0024 1.0024 4.00 1.0024 1.0024 1.0024 4.00 1.0024 1.0024 1.0024 4.00 1.0022 1.0024 1.0024 4.00 1.0022 1.0024 1.0026 5.0 0.0026 1.0024 1.0026 6.0 1.0022 1.0024 1.0026 6.0 1.0022 1.0024 1.0026 8.0 1.0022 1.0022 1.0026 8.0 1.0022 1.0022 1.0026 8.0 1.0022 1.0022 1.0026 8.0 1.0022 1.0022 1.0026 8.0 1.0022 1.0022 1.0026 8.0 1.0022 1.0022 1.0026 8.0 1.0022 1.0022 1.0026 8.0 1.0022 1.0022 1.0026 8.0 1.0022 1.0022 1.0026 8.0 1.0022 1.0022 1.0026 8.0 1.0022 1.0022 1.0026 8.0 1.0022 1.0022 1.0022 8.0 1.		=			420.6	1.5258	•	1.3629	1.3806	1.2377	1, 1215	0.9495	0.8901	1.0214	1.0370	1.2922	1.4005		1,2185										1.9510	4 5478
WHITE OAK LABORA TUNNEL T2 PRESSUR 60.60 deg AVERAGED DATA BODY PRESSURES 375.6 390.6 1.0979 0.9568 1.0979 0.9568 0.7288 0.9778 0.7288 0.9778 0.7288 0.9778 0.7288 0.9568 1.1941 1.2843 1.3847 1.1941 1.2896 1.3847 1.3853 1.3847 1.4890 1.5102 1.4886 1.5003 1.5102 1.4886 1.5003 1.5102 1.4886 1.9509 9620	WHITE OAK LABORA TUNNEL T2 PRESSURE PSI CONFIGURATION PSIATIPR/ PHI 360.60 deg PO 14.91 AVERAGED DATA SCALE BODY PRESSURES 60.6 375.6 390.6 390.6 3738 1.0979 0.9568 3778 1.0979 0.9568 3778 1.0979 0.9568 3778 1.0979 0.9568 3778 1.0979 0.9568 3778 1.0979 0.7468 3778 1.0979 0.9568 3778 1.0979 0.9568 3778 1.0979 0.9568 3778 1.0979 0.9568 3778 1.0979 0.9568 3778 1.0979 0.9568 3778 1.0979 0.9568 3778 1.0979 0.9568 3778 1.0979 0.9568 3778 1.0979 0.9568 3778 1.0979 0.9568 3778 1.0979 0.9568 3778 1.0979 0.9568 3778 1.0979 0.9568 3778 1.0979 0.9685 3778 1.9979 1.99896 3779 1.9979 1.99896 3779 1.9772 1.9877 1.9287	### TUMNEL T2 PRESSUR TUMNEL T2 PRESSUR TUMNEL T2 PRESSUR TUMNEL T2 PRESSUR TUMNEL T2 PRESSUR TUMNEL T2 PRESSUR TANTA	WILTE OAK LABORA WILTE OAK LABORA RUN 15 14.95 deg PHI 360,60 deg 2 / C theta: 360.6 375.6 390.6 14.91 15.0 1.5808 1.0979 0.9568 2 . 7801 1.0979 0.9568 2 . 5006 1.4584 2 . 7801 1.0979 0.9568 3 . 5 . 1.0824 0.7788 0.7046 4 . 5 0.9875 1.1011 0.8094 4 . 5 0.9875 1.1014 1.2843 5 . 5 0.0875 0.7088 1.3078 5 . 5 0.0875 0.7088 1.3078 5 . 6 0.9875 1.1891 1.2896 6 . 5 1.2802 1.3075 1.3847 7 . 0 1.4292 1.3075 1.3843 7 . 0 1.4306 1.4572 1.4896 7 . 5 1.4296 1.4307 1.4306 8 . 0 1.431 1.9520 4 . 375 1.9620 1.8935 4 . 375 1.9620 1.8935 4 . 375 1.9620 1.8935 5 . 375 1.9620 1.8935 6 . 375 1.9620 1.8935 6 . 375 1.9620 1.8935 6 . 3880 0.8197 0.8665 5 . 375 1.9620 1.8935 6 . 375 1.9620 1.8935 6 . 375 1.9620 1.9949 6 . 375 1.9620 1.9949 6 . 375 1.9620 1.9949 6 . 375 1.9620 1.9949 6 . 375 1.9620 1.9949 6 . 375 1.9630 1.9949 6 . 375 1.9630 1.9949 6 . 375 1.9630 1.9949 6 . 375 1.9630 1.9949 6 . 375 1.9630 1.9949 6 . 375 1.9630 1.9936 6 . 375 1.9630 1.9949 7 . 375 1.9630 1.9949 7 . 375 1.9630 1.9949 8 . 375 1.9630 1.9949 8 . 375 1.9630 1.9949 8 . 375 1.9630 1.9949 8 . 375 1.9630 1.9949 8 . 375 1.9630 1.9949 8 . 375 1.9640 1.9949 8 . 375 1.9640 1.9949 8 . 375 1.9640 1.9949 8 .	ORY	ES		(PSI)	405.6	1.4543	1.0804	1.0056	1.0221	1.0508	1.1188	1.2356	1.2403	1.1890	1.1767	1.2966	1.5010	(PSI)	1.0935		•						1.8666	1.9487	1.9578	4000
TUNN PSI CONFIGURAT 60.60 deg AVERAGED DATA 375.6 1.6080 1.0979 0.7288 0.7288 0.7288 0.7288 0.7288 0.7288 1.7111 1.3075 1.3853 1.4870 1.4872 1.4872 1.4872 1.4872 1.8872	TUNN PSI CONFIGURAT PHI 360.60 deg AVERAGED DATA AVERAGED	TUNNA PSI CONFIGURAT TUNNA i deg PHI 360.60 deg AVERAGED DATA AVERAGED	WIR 142 I WIR 142 I RUN 15 14.95 deg PHI 360.60 deg 2 / d theta: 360.6 2 . 780 I 1. 0			14.91 SCALE	DY PRESSURES	••	1.4584	0.9568		0.8094		1. 1823	1.2843	1.2896	1.3847	1.3488	1.5102	1.4886	ING PRESSURES	0.9685				-		777		1.9509	1.9287	1.9836	- 000
	PHI 60.6 . 3036 . 3036 . 3788 . 9322 . 9322 . 9322 . 9322 . 9322 . 9322 . 9322 . 9322 . 9326 . 9326	theta: 360.6 theta: 360.6 1.37891 2.3036 1.8746 1.0824 1.0824 1.0822 0.9372 0.9372 0.9372 0.9372 0.9372 0.9372 1.4293 1.4293 1.4293 1.4293 1.4293 1.436 1.9247 1.8935 1.9247 1.8935 1.9247 1.8935 1.9247	WTR 1421 RUN 15 14.95 deg PHI 2/d theta: 360.6 0.5 2.7801 1.0 5.2036 1.5 1.8746 2.0 2.3036 1.5 1.8778 3.0 9372 4.3 0.9875 4.3 0.9875 4.3 0.9875 6.0 1.0692 6.5 1.7658 7.0 1.4293 7.5 1.96201 1.8935 4.625 1.7658 8.0 1.96201 1.8935 4.625 1.76374 7.1 1.8930 7.2 1.96201 1.8935 7.2 1.96201 1.8935 7.3 1.96201 1.8935 7.5 1.96201 1.8935 7.5 1.96201 1.8935 7.6 1.9144 7.7 1.9 1.9144 7.7 1.9 1.9144 7.7 1.9 1.9 1.9 1.9 1.6 1.6 1.5 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	T IHM	TUNNEL PSI CONFIGURATIO	DATA	80	375.6	1.6080	9160.	.7788	.7111		0.7995	0.9641	1.3075	1.3853	1.4890	1.5003	1.4572	3				1.9620	1.9147	-	.8930 8665	.7856 1.	•	-	7182	•

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	WIR 1421 RUN 24			PSI CONF	TUNNEL PSI CONFIGURATION	12 PRESSURE TEST PSI#1(PR/10) P	TEST 0) PSI#2(TC/1)	(1/)		WTR 1421 RUN 24	
∓	-0.06	бөр	PHI	-1.81 deg Averaged data		PO 14.83 p	ps la FACTOR:	T0 105.57 degf 1.0000	degf	MACH	3.0
	•				800	BODY PRESSURES	(PSI)				
		theta:	-1.8 0.9368	13.2		28.2	43.2	58.2	73.2		
	c - ri c	000	0.7468 0.5992 0.4628	0.5952	0	0.5965	0.5916	0.5948	0.5813,0.5871	5871	
	, 9, 6, 6, 6, 6,	000	0.4073	0.4130	0	0.4053	0.4035	0.4015	0.4606,0.4667 0.3958	4667	
	Б.	•	. 3373	0.3418	0	0.3514	0.3517	0.3532	0.3550		
	4 4 0 c	0 (0.3507	0.3530	0	0.3556	0.3537	0.3553	0.3535		
		ی ر	0.3651	0.3579	.	0.3543	0.3698	0.3553	0.3604		
	•	0	37.16	0.3723	0	0.3639	0.3740	0.3683			
		0	•	0.3679	0	0.3681	0.3721	0.3804	0.3745		
		0	. 3845		0	0.3911	0.3830	0.3814	0.3853		
	•	0	•	•	0	0.3872	0.3892	0.3900	0.3878		
	6.5	0		0.3901	0	0.3929	0.3961	0.3886	0.3959		
	•	0	•	0.3904	0	0.4010	0.4049	0.4031	0.3995		
	C	0	<u>ت</u>	•	0	•	0.4005	•	0.4056		
	8.0	9	.4150	0.4492	0	.4120	0.4453	0.3750	0.3460		
					3	WING PRESSURES	(PSI)				
	z/d r	r/d: 0.5935		0.7185	0.8435	0.9685	1.0935	5 1.2185	1 3435		
	.625 0.	0.3994*							•		
	.875 0.	3808+									
	. 125	֓֞֜֝֜֝֞֜֜֜֝֓֓֓֓֓֓֜֜֜֜֓֓֓֓֓֓֜֜֜֜֓֓֓֓֓֜֜֜֓֡֓֡֓֡֓֡	,			٠					
		46.0 lecot.	_			•					
	4 875	0.4023		0.3913			•				
		0.3988		0.4188	0.3964						
	5.375	0.3806				•					
	.625 0.	3888,0.		0.3835		0.3845					
	•	0.3859		0.3851		! !					
	6.125			0.3884	0.3927	0.3942	0.3791	_			
	•	0.3979		0.4001	0.3972	0.3930	0.3895	ນ			
	6.625	0.3972		0.4000	0.4026	0.4034	0.3974	4 0.3792			
	.87			0.3989	0.4083	0.4016	0.4035		0.3693,0.3835		
	7.125 •	0.3998		0.3976	0.3980	0.3959	0.3949				
	7.375	0.4072		0.3922	0.3946	0.3910	0.3920		0.3614		

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WTR 142 I RUN 26	MACH 3.0				60	· 42																															
			73.2		0.3742.0.9678	0.3080,0,7654	0.2781		0.2643	0.2766	0.2958	0.3314	0.3330	0.3255	0.3266	0.3203	0.3202	0.3148	0.3126	0.2807		3439														,0.4878	
. =	10 106.06 degf.		58.2		0.3779		0.2719	•	2460	0.2263	0.2192	0.2197	0.2226	0.2349	0.2395	0.2478	0.2600	0.2847	0.2876	0.2617		20.0													0.4066	0.4067,0	
TEST (0) PSI#2(TC/1)	psta FACTOR: 1.	(PS1)	43.2		0.3853		0.2624		0.2405	0.2352	0.2414	0.2364	0.2392	0.2404	0.2559	0.2712	0.2897	0.3031	0.2929	0.3305	(PSI)	1.0935											0.3997	0.4071	0.4077	0.4125	4
L 12 PRESSURE TEST ON PSI#1(PR/10) P	PO 14.81 F SCALE F	BODY PRESSURES (PSI	28.2		0.4163	:	0.2645		0.2342	0.2346	0.2322	0.2371	0.2346	0.2366	0.2633	0.2641	0.2573	0.2629	0.2598	0.2935	WING PRESSURES	0 9685			٠						0,3957		0.4091	0.4056	0.4135	0.4121	
TUNNEL PSI CONFIGURATION	-1.83 deg Averaged data	ă	13.2		0.4689		0.3052		0.2154	0.2149	0.2186	0.2215	0.2290	0.2303	0.2404	0.2461	0.2493	0.2580	0.2685	0.3374	•	0.8435							0.4019	0.3946	0.3964	0.3974	0.4019	0.4051	0.4077	0.4142	
PSI			80	.8811														2480 C	2655 () 666		0.7185	•				0.3963	0.3999	0.4036	•	0.3883		0.3859	•	0.3913	0.3835	
	deg PHI		theta: -1.	0.8811	0.5480	0.4	0.3	0.28	0.25	0.54	0.5	0.23	0.2				0.23	0.54	0.26	0.29		r/d: 0.5935	*	3493+	0.3715	36991 0.3882	0.4076	0.3953	0.3834	Ö	.374	0.3687		0.3748	0.3718	0.3633	6566
WTR 142 1 RUN 26	6.93		_	0.5		•	2.5	•	•	٠	•	4.5			•	•		7.0	7.5			z/d r.	ın	o.	4.125	.375 0.	4.625		•		.625 0	5.875		•		. 87	
	ALPH																						_	_													

WHITE OAK LABORATORY

21	3.0																																				
WTR142 RUN 2	IF MACH		73.2		0.3057,1.2293	0.2452.0.9814	0.2056				0.1756		0.1777	0.1853	0. 1960		0.2038	0.2027	0.2124	0.2169		2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	0040.												6184		0.4000
3	10 106.51 degF 1.0000		58.2		0.2957		0.2011		•			0.1662	0.1679	0.1741	0.1909	0.2023	0.2024	0.2049	0.2099	0.2050		2000	6017.1											0.4201	0.4210,0.6184	0.4068	0.4034
RE TEST /10) PS1#2(TC/1)	ps I.a Fac for :	S (PSI)	43.2		0.2794		0.1949			0. 1680	0. 1681	0.1662	0.1757	0.1867	0.2071	0.2162	0.2140	0.2147	.0.2212	0.2927	ES (PSI)									₹						0.3901	
TUNNEL T2 PRESSURE TEST URATION PSI#1(PR/10) P	PO 14.81 SCALE	BODY PRESSURES	28.2	٠	0.3095		0.1775			0.1714		0.1712	0.1723	0.1796	0.2003	0.2065	0.2155	0.2273	0.2333	0.2548	WING PRESSURES	35 0 9685		٠				4016	3695	3532 0:3934					Ö	ö	
TUNNEL PSI CONFIGURATION	-1.79 deg AVERAGED DATA		13.2		0.3908		0.2408		_			0.1503	0.1605	0.1710	0.1915	0.2053	0.2172	0.2259	0.2350	0.2907		0.7185 0.8435				3653	3502	2959 0.	2836 0.	0.2643 0.35	2437 0.	2248 0.	ö	ö		0.1732 0.2236	0.1708 0.20
	PHI A			0.8361	0.5100	0.3883	0.3284	0.2538	0.2196	0.2100	0.2042	0. 1925	0.1914	0.1977	0.1887	0.1843	0.1917	0.2094		0.2511		5935)	0.3409	0.3579	Ö	o.	0	.2446 0.	. 2398	.2303 0.	o.	2297	2255	2133	0.2140 0.	2114
WTR 142 1 RUN 27	14.91 deg		z/d theta	o -	5.7	2.0	2.5	o.	3.5	0.4	•	•		•			6.5		•	8.0		0 :0/2 0/2	2313		0.33871					5.625 0.6708,0	5.875 0			. 625	.875	7.125 0	. 375
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WTR1421 RUN 28	JF MACH		95.6	0.5771,0.5925	0.4558,0.4599 0.3941	0.3494	0.3526 0.3569	0.3600	0.3674	0.3730	0.3844	0.3925	0.3975	0.3999	0.3455		1,3435													3739		0.3429
·	T0 106.87 degF 1.0000		80.6	0.5892	0.3955	0.3481	0.3519	0.3598	0.3669	0.3709	0.3854	0.3862	0.3954	0.3969	0.3749		1.2185												0.3618	0.3536,0.3739	0.3870	0.3866
E (EST 10) PSI#2(TC/1)	psia Factor: 1.	(PSI)	65.6	0.5898	0.3988		0.3505	0.3616	0.3678	0.3/49	0.3851	0.3901	0.3961	0.3939	0.4449	S (PSI)	1,0935								_		Ö			ö	0.3930	Ö
EL T2 PRESSURE 1(ION PSI#1(PR/10)	PO 14.80 SCALE	BODY PRESSURES	50.6	0.5930	0.4012		0.3510		•	0.3680			0.3938	0.3898	0.4117	WING PRESSURES	5 0.9683						4		6 0.3740		o.		ö	o.	2 0.3934	o.
TUNNEL PSI CONFIGURATION	20.56 deg Averaged data		35.6	0.5915	0.4101		0.3502		•	0.3584		0.3863	0.3891	0.3906	0.4442		5 0.8435				ır.	. თ	8 0.3874	o	Ö	Ö	Ö	Ö		Ö	7 0.3922	0.
ā.	PHI 20.5		20.6 0.9288	0.7376			. 3499 . 3544			3800			•	.390	. 4095		0.7185				'n	Ö		Ö	o.	o.	o.	Ö	Ö	o.		•
	g deg		theta:	000	000	00	00	0	0		. 0	0	0	0	J		r/d: 0.5935	3926	0.3/44+	0.3/02	0 2005 .	0.3807	0.3940	0.375	. 383	0.3795		0.3963	0.3915	•	0.3935	0.3978
WIR1421 RUN 28	60∵0- на		2/4		2. 2. c		4 4 0 6		•		6.0		7.0	7.5	•		p/z	.625	0/2		.625	•	•	5.375	.625	5.875	•	•	•		7.125	7.375

HITE OAK LABURAFOR

21	3.0																															
WTR1421 RUN 29	MACH		95.8	0.4603,0.7221	0.3711,0.5601 0.3290	0.2974	0.2969	0.3159		0.3348	0.3525						- 24 25 72 4 25													2524	1	0.2577
2	T0 107.09 degF 1.0000		80.8	0.4663	0.3295	0.3055	0.3078	0.3158	0.3231	0.3297	0.3466 0.3636	0.3653	0.3730	0.3720	0.3520		1010								•				0.2654	0.2672,0.2524	0.2511	0.2011
TEST 0) PSI#2(TC/1)	psta 1.0	(PSI)	65.8	0.4688	0.3315	0.3034	0.3068	0.3129	0.3176	0.3213	0.3321	0.3625	0.3670	0.3651	0.4053	(PSI)	1.0935						٠				0.2453	0.2558	0.2602	0.3147	0.3524	C. 3087
. T2 PRESSURE TEST	PO 14.80 p	BODY PRESSURES	50.8	0.4823	0.3349	0.3027	0.3062	0.3125	0.3113	0.3106	0.3240	0.3345	0.3488	0.3480	0.3708	WING PRESSURES	. 0.9685		•						0.2379		0.3021	0.3583	0.3810	0.3776	0.3719	250.5
TUNNEL PSI CONFIGURATION	DATA	38	€0.	69	85	2927	3014	3057	3093	3089	3160	3135	23	81	3737	•	0.8435						0.2516	0.2796	0.3413	0.3532	0.3642	0.3693	0.3742	0.3808	0.3688) : n :)
PSI CO	20.76 deg Averaged data		35.	0.4969	0.3485	0.29	0.30	0.30	0.30	0.30	5.0	0.31	0.3223		0.37		0.7185				0.2828	0.3371	0.3805	0.3472	0.3506	0.3547	0.3586	0.3724	0.3745	0.3685	0.3702	C. 6041
	II.		theta: 20.8 0.8293	0.6561	0.3612	0.2904	0.2984	0.3028	0.3064	0.3084	0.3080	0.3030	0.3096	r.	0.3367		0.5935		0.2539	0 2718	0.3454	0.2443	0.3597		. 356	0.3562		•	•		0.3757	
WTR 1421 RUN 29	4.92 deg		z/d the 0.5	0.1.0						ny n O n			7.0	7.5	0° 8		z/d r/d:	3.625 0.2807*	125	4.375 0.25421	.625	4.875	5.125	.375	5.625 0.3798,	5.875	•	6.375		٠	7.125	2
	Ξ																															

WHITE DAK LÄBORATORY

4 2 i 30	3.0																																
WTR1421 · RUN 30	JF MACH		95.8	0.3760,0.8791	0.2833	0.2689	0.2715	0.2903	0.3012	0.3138			0.3404	0.3380	0.3292	0.3395		1.3435													2334		0.2115
9	10 107.19 degf 1.0000		80.8	0.3799	0.2844	0.2973	0.2916	0.2984	0.2998	0.3018	0.3128	0.3146	0.3041	0.2976	•	0.2689		1.2185												0.2180	0.2180,0.2334		
E TEST 10) PSI#2(TC/1)	psia FACTOR: 1.	(PSI)	65.8	0.3773	0.2768	0.2428	0.2217	0.2004	0.2012	0.2088	0.2120	0.2078	0.2060	. 0. 2053	0.2101	0.2945	S. (PSI) ·	1.0935							•			0. 1999	0.2090			Ö	0.3425
L T2 PRESSURE TEST ON PSI#1(PR/10) P	PO 14.80 SCALE	BODY PRESSURES	50.8	0.3802	0.2679	0.2395	0.2275	0.2190	0.2166	0.2141	0.2290	0.2222	0.2206	0.2220	0.2252	0.2570	WING PRESSURES. (PSI)	0.9685	٠		•		•			0.1944			0.3070	0.3637	0	0.3570	0.3541
TUNNEL PSI CONFIGURATION	20.76 deg Averaged data	Ö	35.8	0.3947	. 2666	. 2275	.2262	2163	. 2162	0.2141	. 2228	. 2255	. 2233		•	. 2897		0.8435						0.2053	0.1912	0.2599	0.3287	0.3586	0.3630	0.3632	0.3663	0.3491	0.3491
PSI					2841 0		2143									502 0		0.7185				0	0.1978	0.3700	0.3405	0.3427	0.3447	0.3471	0.3579	0.3560	0.3459	0.3450	0.3410
	Іна бер		theta: 20.8 0.7115	0.55	0.28	0.21	0.0	0.2	0.21	•	•		•		•	0.25		d: 0.5935		.2136+	Ψ.	16/61 0.2001	10.20	0.3489	0.3331	.4215,0.3416	0.3394		0.3545	0.3471	0.3395	•	0.3339
W1R1421 RUN 30	90 88 Hd		2/d 0.5		, 4, 4 5, 8, 6		4 4 0 c	. 4 . 10		•	5.5	•	6.5	7.0	7.5	0.8		:/d:	.625 0	0	. 125	4.3/3 0.10	4 875	5,125	•	.625 0		•	6.375	•	6.875	Ξ.	7.375

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WTR1421 RUN 31	MACH 3.0		0.96			0.3117,1,0708	0.2615.0.8413	0.2532		0.2810		0.2428	0.2479	0.2521	0.2633	0.2731	0.2655	0.2550	0.2406	0.2259				26.40 PC 40.															703
(1)	T0 107.31 degF 1.0000		81.0			0.3130		0.2446)	0.2791	0.2534	2363	2375	2372	2252			0. 1913		1692	0.1683		•	1 2185													6000	0.1628	
E TEST 10) PSI#2(TC/1)	psta FACTOR: 1	(PSI)	99			0.3035		0.2019) 	0.1442	0.1425	0.1481	0.1448		0.1582	0.1693	0.1729	0.1729	0.1766	0.1799	0.2483	(PSI)		1,0935											0.1531	0.1609	•	Ö	00
T2 PRESSURE TEST N PSI#1(PR/10) P	PO 14.79 F SCALE F	BODY PRESSURES	51.0			0.2863		0.1985		0.1650	0.1647	0.1617	0.1565	0.1565		0.1752	0.1758	0.1799	0.1856	0.1887		WING PRESSURES		0.9685									0.1526		0.1578	0. 1973		0.2716	0.2716
TUNNEL PSI CONFIGURATION		B0	36.0			0.2807		0.1912		1564	1636	1640	1564	1593	1630	1767	1828	1840	1909	1966	2591	>		0.8435							0.1686		0.1637		0.2893	0.3276		0.3334	0.3334
PSI	21.03 deg AVERAGED DATA			2	6		7			3 0.	0.		3 0.			.0				o.	0			0.7185					0.1700	0. 1833	0.3336	0.2646	0.3039	0.3162	0.3101	0.3104		0.3056	0.3026
	РНІ		theta: 21.0	0.585	0.441	0.331	0.245	0.204	0.146	0.1373	0.155	0.161	0.160	0.163	0.164	0.176	0.180	0 185	0.191	0.1973	٠:			0.5935		**	0.1569	41 0.1761	0.1925	0.1607	0.3119	0.2957	1,0.3003	0.2863		0.2884		0.2772	
WTR1421 RUN 31	14.94 deg			0.5	0	1.5	2.0	2.5	3.0	3.5	0.4	4.3	4.5	8.4	•	•	0.9	•	7.0	7.5	8.0			z/d r/d:	.625 0.23	.875	4. 125	.375 0.139	4.625	4.875	5, 125	5.375	.625 0.491		6. 125	6.375	100	6,625	6.875
- -	ALPH																										•	•	•	•		J-		٥.	-	-	•	-	•

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	WIR1421 RUN 32			TUNNEL PSI CONFIGURATION		12 PRESSURE TEST PSI#1(PR/10) P	TEST 0) PSI#2(TC/1)	(1)		WTR 1421 RUN 32	- ~
Ē	-0.09	deg	IHA	43.31 deg Averaged data	P0	14.83 p	psta FACTOR: 1	T0 107.49 degf.	10f	MACH	3.0
					BODY	BODY PRESSURES	(PSI)				
	_	theta:	43.3	58.3	73	9.3	88.3	103.3	118.3		
	.s. c	00	9225								
		0		0.5866	0	0.5891	0.5868	0.5849	0.5747.0.5954	5954	
	2.0	0	•						0.4529,0.4582	1582	
	•	0 (0.4080		0.3984	0.3953	0.3922	0.3922		
		0							1		
		0 (. 3373	0.3374	0	3433	0.3418	0.3457	0.3463		
		0	. 3498	0.3487	0	0.3488	0.3489	0.3503	0.3514		
	ص ر ح	0 (. 3530	0.3526	0.0	.3517	0.3536	0.3543	0.3541		
	4 0	0	.3594	0.3570	0	0.3607	0.3592	0.3577			
	4	0	•	0.3633	0	3650	0.3662	0.3672	0.3650		
	0	0		0.3690	•	3683	0.3765		0.3746		
		0		0.3778	0	3816	0.3788	0.3769	0.3812		
		0		0.3843	•	3830	0.3842	0.3835	0.3827		
	•	0		0.3863	0.3	3875	0.3881	0.3856	0.3906		
	7.0	•			3.0		0.3926	0.3917	0.3952		
	7.5	0		0.3911	0	0.3915	0.3921	0.3967	0.3963		
	8.0	0	. 4060	0.4405	0.	4 105	0.4437	0.3741	0.3467		
					X X	WING PRESSURES	(PSI)				
	J p/z	r/d: 0.5935		0.7185	0.8435	9685	1.0935	1 2185	1 3435		
		•6) - -	•					
	875	3663+									
	4.125	0.3602									
	0	.35311 0.3768	60								
		0.3868									
	4.875	0.3680	_								
	•	0.3908			0.3747						
	(o e		0.3745		.					
	625 0.	3821,0.382	_		•	0.3557					
	٠.	0.3763	_	0.3805							
					0.3888	0.3949	0.3420				
	•	0.3945			0.3949	0.3902	0.3639	•			
		0.3875			0.3963	0.4017	0.3877	0.3409			
	•	0.3858	_		0.4005	0.3952	0.4024	0.3348,0.3566	. 3566		
	7.125	•	_	0.3874	0.3875	0.3896	0.3877	0.3719			
	7.375	0.3876		0.3863	0.3895	0.3887	0.3841	0.3829	0.3280		

WHITE OAK LABORATORY

Hard		RUN 33	. М		PSI CONFIGURATION	GURATION	PSI#1(PR/10) P	O) PSI#2(TC/1)	10/1)	RUN	RUN 33
2/d theta: 43.6 58.6 73.6 88.6 103.6 103.6 10.6 10.5 1.0	Ŧ	•	Ge p	PHI	43.64 deg Averaged dat		.14.87 SCALE	sta Actor:	107 . 59	IGF MACH	3.0
2/d theta: 43.6 58.6 73.6 88.6 103.6 0.5 0.5653 0.6061 0.4677 0.4679 0.4669 1.5 0.6061 0.4020 0.4721 0.4677 0.4669 0.4669 2.5 0.3827 0.3466 0.346 0.3221 0.3286 0.3286 3.5 0.2946 0.3073 0.3073 0.3024 0.3078 0.3078 0.3078 0.3078 0.3078 0.3078 0.3078 0.3078 0.3078 0.3078 0.3174 0.3182 0.3078 0.3078 0.3078 0.3078 0.3078 0.3078 0.3078 0.3078 0.3078 0.3078 0.3078 0.3174 0.3478 0.3164 0.31						800		(PSI)			
1.0 0.55 1.0 0.6651 1.1 0.06651 1.2 0.06651 1.2 0.04629 2.0 0.3456 2.0 0.3456 2.0 0.3456 2.0 0.3456 2.0 0.3456 2.0 0.3456 2.0 0.3034 2.0 0.3034 2.0 0.3034 2.0 0.3034 2.0 0.3034 2.0 0.3034 2.0 0.3034 2.0 0.3049 2.0 0.3049 2.0 0.3058		p/z	₹	(2)	58.6		C	88.6	103.6	118.6	
1.0 0.6061 1.0 0.6061 2.0 0.4820 0.4721 0.4677 0.4679 0.4669 2.0 0.3827 0.3826 0.3827 0.3921 0.3282 3.5 0.3856 0.3900 0.3932 0.3054 0.2966 4.3 0.2934 0.2983 0.3054 0.3058 0.3056 4.3 0.3058 0.3059 0.3174 0.3182 0.3072 4.8 0.3069 0.3177 0.3246 0.3134 5.0 0.3078 0.3094 0.3177 0.3246 0.3134 5.0 0.3119 0.3094 0.3459 0.3361 0.3274 6.0 0.3119 0.3238 0.3459 0.3459 0.3363 6.5 0.3177 0.3326 0.3427 0.3459 6.5 0.3177 0.3326 0.3427 0.3459 6.5 0.3177 0.3321 0.3427 0.3462 7.0 0.3215 0.3321 0.3425 0.3462 0.3488 8.0 0.3215 0.3321 0.3425 0.3462 0.3489 8.0 0.317 0.3326 0.3425 0.3462 0.3489 8.0 0.318 0.3244 0.1865 6.2 0.2135 0.4928 0.4184 0.1867 6.2 0.3139 0.3244 0.1867 0.4747 0.4742 6.3 0.3128 0.3249 0.4747 0.4742 6.3 0.3419 0.3469 0.3449 0.4788 0.4988 6.3 0.3419 0.3440 0.3419 0.41861 0.4918 6.3 0.3419 0.3419 0.3419 0.41861 0.41861 0.3449 0.3		0.5	0	7653							
1.5 0.4820 0.4721 0.4677 0.4679 0.4669 2.0 0.3827 0.3827 0.3285 3.0 0.3827 0.3400 0.3332 0.3321 0.3285 3.0 0.2934 0.2983 0.3064 0.3034 0.2966 4.0 0.3037 0.3073 0.3106 0.3095 0.3095 4.3 0.3069 0.3073 0.3106 0.3165 0.3016 4.3 0.3069 0.3073 0.3174 0.3182 0.3182 5.0 0.3126 0.3239 0.3244 0.3134 5.0 0.3126 0.3239 0.3245 0.3169 6.0 0.3126 0.3239 0.3249 0.3361 0.3369 6.0 0.3126 0.3336 0.3444 0.3269 6.0 0.3177 0.3325 0.3462 0.3369 6.0 0.3177 0.3325 0.3462 0.3369 6.0 0.3177 0.3325 0.3462 0.3462 6.0 0.3177 0.3325 0.3462 0.3462 6.0 0.3178 0.3244 0.3249 0.3462 6.0 0.3179 0.3244 0.3469 6.0 0.3170 0.3212 0.3345 0.3462 0.3469 6.0 0.3170 0.3212 0.3425 0.3462 0.3469 6.0 0.3170 0.3212 0.3425 0.3462 0.3462 6.0 0.3170 0.3165 0.3426 0.3462 0.3462 6.0 0.3170 0.4694 6.0 0.324 0.3244 0.444 0.444 6.0 0.3476 0.3469 0.4786 0.4786 0.4981 6.0 0.324 0.3244 0.2103 0.4865 0.4861 0.4979 6.0 0.324 0.3244 0.3240 0.4766 0.4981 6.0 0.324 0.3240 0.4766 0.4786 0.4981 6.0 0.3470 0.3429 0.3249 0.3249 0.4288 0.4881 6.0 0.3470 0.3471 0.3472 0.3547 0.3470 0.4811 6.0 0.3470 0.3471 0.3472 0.3547 0.3681		0.1	0	6061							
2.0 0.3827 0.3322 0.3328 0.3285 3.0 0.335		1.5	0	4820	0.4721	0	. 4677	0.4679	0.4669	0.4675,0.6706	
2.5 0.3456 0.3400 0.3332 0.3321 0.3285 3.0 0.2883 0.2983 0.3054 0.2966 0.2966 4.0 0.0307 0.3073 0.3059 0.3059 0.2966 4.0 0.3069 0.3073 0.3059 0.3177 0.3056 0.3016 4.5 0.3069 0.3089 0.3177 0.3182 0.3014 5.0 0.3071 0.3089 0.3177 0.3244 0.3014 6.0 0.3179 0.3089 0.3177 0.3249 0.3146 6.0 0.3179 0.3283 0.3421 0.3169 0.3169 7.0 0.3176 0.3329 0.3425 0.3460 0.3450 7.0 0.3176 0.3174 0.3425 0.3462 0.3460 8.0 0.3176 0.3128 0.3425 0.3460 0.3450 8.0 0.1318 0.3184 0.3425 0.3462 0.3460 8.0 0.1318 0.3425 0.3425 <td></td> <td>2.0</td> <td>0</td> <td>3827</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.3725,0.5146</td> <td></td>		2.0	0	3827						0.3725,0.5146	
3.0 0.2883 3.1 0.02883 3.2 0.2984 0.2983 0.3064 0.3034 0.2966 0.2068 4.3 0.3058 0.3073 0.3073 0.3160 0.3095 0.2968 0.2068 4.3 0.3058 0.3073 0.3120 0.3182 0.3016 0.2068 5.0 0.3078 0.3089 0.3174 0.3182 0.3016 0.2072 5.0 0.319 0.3208 0.3174 0.3182 0.3016 0.2072 5.0 0.312 0.3283 0.3441 0.3458 0.3459 0.3774 5.0 0.312 0.335 0.3441 0.3458 0.3459 0.3774 7.5 0.3215 0.3325 0.3425 0.3462 0.3469 0.3777 7.5 0.3215 0.3325 0.3425 0.3462 0.3469 0.3777 7.5 0.3216 0.3325 0.3425 0.3462 0.3469 0.3377 7.5 0.3215 0.3325 0.3425 0.3462 0.3459 0.3450 8.0 0.3215 0.3228 0.3425 0.3622 0.3462 0.3459 8.0 0.4028 0.3744 0.3652 0.3904 0.3742 8.1 0.3224 0.3234 0.3244 0.32		2.5	0	3456	0.3400	0		0.3321	0.3285	0.3285	
3.5 0.2934 0.2983 0.3064 0.3034 0.2966 0.2966 4.0 0.005 0.3073 0.3106 0.3065 0.3106 0.2966 0.2966 4.5 0.0069 0.3073 0.3174 0.3182 0.3016 0.2066 4.5 0.0069 0.3095 0.3174 0.3182 0.3017 0.2374 0.2374 0.2374 0.2374 0.2374 0.2374 0.2374 0.2374 0.2374 0.2374 0.2374 0.2374 0.2369 0.3455 0.2369 0.3459 0.2369 0.3374 0.2369 0.3459 0.2369 0.3459 0.2369 0.3369 0.3450 0.3369 0.3369 0.3469 0.3369 0.3369 0.3469			0	2883							
4.0 0.3037 0.3073 0.3106 0.3095 0.2968 0.20 4.1 0.3058 0.3099 0.3120 0.3185 0.3016 0.20 4.5 0.3069 0.3099 0.3174 0.3185 0.3016 0.20 4.5 0.3069 0.3099 0.3177 0.3244 0.3037 0.3072 5.5 0.3119 0.3294 0.3299 0.3317 0.3244 0.3134 0.3274 6.0 0.3126 0.3294 0.3425 0.3361 0.3274 0.3369 0.3361 7.0 0.3126 0.3335 0.3441 0.3458 0.3459 0.3369 7.0 0.3212 0.3335 0.3425 0.3462 0.3459 0.3369 7.5 0.3212 0.3321 0.3425 0.3462 0.3498 0.3369 7.5 0.3212 0.3321 0.3425 0.3462 0.3498 0.3369 8.0 0.3212 0.3321 0.3555 0.3462 0.3498 0.3499 8.0 0.3214 0.5935 0.3164 0.3655 0.3662 0.3499 8.1 0.1694 0.1694 0.1663 0.3244 0.1742 0.1742 8.2 0.3224 0.3234 0.1741 0.1742 0.1768 0.3326 0.3497 0.3459 0.1768 0.3417 0.1768 0.1916 8.2 0.3427 0.3424 0.3447 0.1768 0.1916 0.1917 0.1818 0.3417 0.3417 0.1748 0.1812 0.3417 0.3419 0.1812 0.3419 0.3410 0.3410 0.3410 0.1812 0.3410 0.3410 0.3410 0.1811 0.3410 0.1812 0.3410 0.3410 0.3410 0.1812 0.3410 0.3410 0.3410 0.1812 0.3410 0.3410 0.3410 0.1812 0.3410 0.3410 0.3410 0.1812 0.3411 0.34			0	2934	0.2983	0	. 3064	0.3034	0.2966		
4.3 0.3058 0.3059 0.3120 0.3185 0.3016 0.0.2 4.5 0.3069 0.3095 0.3174 0.3182 0.3072 0.2072 4.8 0.3081 0.3095 0.3177 0.3349 0.3182 0.3072 0.2072 5.0 0.3181 0.3094 0.3209 0.3341 0.3369 0.3166 6.0 0.3179 0.3353 0.3427 0.3451 0.3369 0.3374 7.0 0.3212 0.3353 0.3427 0.3458 0.3369 0.3383 0.347 7.5 0.3212 0.3321 0.3425 0.3428 0.3464 0.3462 0.3883 0.3889 7.5 0.3212 0.3221 0.3425 0.3462 0.3462 0.3498 8.0 0.3376 0.3376 0.3425 0.3462 0.3462 0.3498 8.0 0.3376 0.3744 0.3555 0.3964 0.3430 0.3389 8.0 0.3376 0.3185 0.4185 0.4185 0.3462 0.3489 8.1 0.1621 0.1887 0.1865 0.3244 0.1841 0.1742 0.1781 0.1781 0.1871 0.1871 0.1871 0.1871 0.1871 0.1871 0.1871 0.1871 0.1871 0.1871 0.1871 0.1871 0.1871 0.3471 0.3471 0.1871 0.1871 0.1871 0.3471 0.3471 0.3471 0.1871 0.1871 0.347		•	0	3037	0.3073	0		0.3095	0.2968	0.2656	
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4.8 0.3081 0.3099 0.3177 0.3244 0.3134 0.3245 0.3146 0.3274 0.3156 0.3176 0.3176 0.3176 0.3176 0.3177 0.3189 0.3177 0.3189 0.3177 0.316 0.3177 0.3189 0.3177 0.3189 0.3177 0.3186 0.3189 0.3361 0.3274 0.3369 0.3274 0.3369 0.3274 0.3369 0.3274 0.3369 0.3369 0.3369 0.3369 0.3376 0.3484 0.3369 0.3369 0.3369 0.3369 0.3469 0.3469 0.3476 0.3469 0.3469 0.3469 0.3469 0.3469 0.3469 0.3469 0.3469 0.3469 0.3469 0.3469 0.3469 0.3469 0.3469 0.3469 0.3469 0.3469 0.3469 0.3469 0.3479 0.3479 0.3479 0.3479 0.3479 0.3479 0.3479 0.3479 0.3479 0.3479 0.3479 0.3479 0.1449 0.1449 0.1449 0.1449 0.1449 0.1449			0	3069	0.3085	0	.3174	0.3182	0.3072	0.2800	
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VING PRESSURES (PSI) 2/d r/d: 0.5935				01.00		•		2040.0	0.3498	•	
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	WTR 142 I RUN 34			TUNNEL PSI CONFIGURATION	TUNNEL GURATION	12 PRESSURE TEST PSI#1(PR/10) P	E TEST 10) PSI#2(TC/1)	(1/3)		WTR1421 RUN 34	
Ŧ	96.6	deg	<u>=</u>	43.72 deg Averaged data		PD - 14.90 SCALE	PBIB FACTOR:	10 107.88 degf 1.0000	degf	MACH 3	3.0
					ВООУ	Y PRESSURES	(PSI)				
	p/z	thete:	43.7	58.7		73.7	88.7	103.7	118.7		
	. O		0.6163								
	O u		0.4793	1	(0	6		
	ر د د		0.37/0	0.3/55	•	65/E.O	0.3824	0.3790	0.3730,0.7449	7449	
) i		7. 2987	9000	•	. 000	6000	7070	0.3019,0.9729	27/5	
	n C		0.2722	0.2799	>	. 2838	0. 2898	0.2794	0.2098		
) III		1 2291	0.2338	C	2598	0.2925	0.2550	0.2219		
	4		2255	0 2207	C				0.1809		
	4). 2224	0.2105	Ö		0.3023	0.2760	0. 1688		
	<u>4</u> 70	. •	7.2162	0.1945	Ö		0.3028		0.1768		
	4.89		5.2149	0.1927	0		0.3054	0.2788	0.1900		
	5.0	•	7.2121	0.1975	0		0.3049	0.2679	0.2113		
	5.5	_	0.2219	0.2118	Ö	. 2940	0.2946	0,2585	0.2417		
	9.0		0.2236	0.2146	0	. 2665	0.2867	0.2625	0.2739		
	6.5	•	0.2216	0.2138	0	0.2442	0.2799	0.2747	0.2931		
	7.0	_	5.2214	0.2198	•	0.2257	0.2801	0.2862	0.3049		
	7.5	•	0.2200	0.2227	ö	. 2203	0.2786	0.2950	0.3056		
	•	•	0.2380	0.2779	0	. 2362	0.2745	0.3312	0.3668		
					3	WING PRESSURES	s (PSI)				
	b/2	r/d: 0.5935	16	0.7185	0.8435	0.9685	1.0935	35 1.2185	3435		
	'n	:			!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	 			•		
	.875	1001									
	. 125	0.0897	~								
	0	.07961 0.1099	99								
	4.625	0.1170	0	0.1113							
	4.875	0,1149	œ.	0.1072							
		0.2401	_	0.2629	0.1232						
		0.2541	_	0.1444							
	625		0	0.1961		0.1135					
	5.875	0.3125	IC.	0.2407	0.1057					٠	
				0.2733	0.1540	0.1232	0.1127	27			
		0.3201	-	0.3040	0.1999	0.1157	Ö	1300			
	6.625	0.3116	(D)	0.3120	0.2479	0.1279	0	1286 0.1284			
	.87		£.	0.3040	0.2795	0.1561			0.1322,0.1451	•	
	7.125	0.3087	7	0.3049	0.2822	0. 1889	ö	1073 0.1209	_		
	7.375			0.3052		0.2299	.	ó	0.1256		
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	WTR1421 RUN 35			PSI CONF	TUNNEL PSI CONFIGURATION	12 PRESSURE TEST PSI#1(PR/10) P	TEST 5) PSI#2(TC/1)	(1/3		WTR1421 RUN 35	
E	14.93	G ep	IHd	43.72 deg Averaged data	P0	14.91 p	psta FACTOR:	10 107.66 degf 1.0000		MACH 3.0	0
					800Y	BODY PRESSURES	(PSI)				
	p/z	theta:	43.7	58.7	7.	73.7	88.7	103.7	118.7		
	O •		0.4657								
) u		•		•		1				
	2 0		0.2705	0.2954	0	0.3097	0.3245	0.3087	0.2950,0.8334	4 (
				0 2081	c	0,000	0 2688	0 2102	0.2337,0.042	5	
	0.6		0.1624		•	2	0.400	0.4104	0.2012		
				0.1393	0.0	1778	0.2647	0.2173	0.1615		
	•		Ξ.	0.1369	0.0	1791	0.2499	0.1998	0.0953		
	•		Τ.	0.1442	0	1806	0.2469	0.1985	0.0967		
			0.1462	0.1385	0	1652	0.2385	0.1925	0, 1080		
			Ξ.	0.1429	0	1649	0.2422	0.1860	0.1115		
	•		0.1581		0	1624	0.2503	0.1797	0.1314		
			Τ.	0.1719	0.0	1730	0.2353	0.1899	0.1692		
			18	0.1765	0	1707	0.2133	0.1879	0. 1935		
	6.5		Ξ.	0.1734	0	1736	0.2003	0.1990	0.2059		
	•		184	0.1781	0	1773	0.1927	0.2027	0.2072		
	7.5		0.1775	0.1781	0	1812	0.1915	0.2114	0.2132		
			0.1914	0.2327	0.0	. 2051	0.2442	0.2557	0.2680		
					NI3	WING PRESSURES	(PSI)				
	J p/z	r/d: 0.5935	ល្អ	0.7185	0.8435	0 9685	1 0935		3070		
		*			1						
	.875 0	. 1416+									
		0.0987	7								
	0	.07761 0.1189	89								
	4.625	0.1237	1.	0.1096							
	4.875	0.0952	Ċ,	0.1145							
	5, 125	0.1937	7	0.2169	0.1032						
	•	0.1858	8 0	0.1493	0.0874						
	625 0	.2121,0.2015	ນ	0.1755	0.0806	0.0841					
	5.875	0.1990	0	0.1983	0.0928						
				0.2163	0.1174	0.0838	0.0764	•			
	•	0.2402	2	0.2432	0.1392	0.0815	0.0926	·co			
	•	0.2403	ņ	0.2584	0.1753	0.0996	0.0906	6 0.0895			
	•	0.2385	5	0.2549	0.2100	0.1126	0.0896		1311		
	7.125	0.2405	ŭ	0.2562	0.2178	0.1346	0.0720				
	7.375	0.2378	€0	0.2550	0.2331	0.1717	0.0841		0.0869		
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12.1 36	3.0																															
WTR142 RUN 30	IGF MACH		140.8	0.5772,0,5973	0.4552,0,4579 0.3954	0.3462		0.3580			0.3815	0.3826	0.3928	0.3911	0.3473		1,3435													. 3378	1	0.3169
•	10 107.40 degF 1.0000		125.6	0.5854	0.3928	0.3461	0.3499	0.3579	0.3684	•		0.3829	0.3861	0.3933			1,2185								-				0.3293	0.3266.0	0.3392	0.3763
TEST 5) PS1#2(TC/1)	psta 1 FACTOR: 1.C	(PSI)	110.6	0.5876	0.3962	0.3410	0.3490	0.3587	0.3666	0.3786	0.3788	0.3838	0.3876	0.3897	0.4445	(PSI)	1.0935	1									0.3238	0.3458	0.3746	0.4049	0.3856	0.3807
12 PRESSURE TEST N PSI#1(PR/10) P	PO 14.91 ps SCALE FA	BODY PRESSURES	95.6	0.5889	0.3985		0.3487	0.3609		0.3702		0.3832	0.38/2	0.3931	0.4109	WING PRESSURES	. 0.9685					•			0.3447		0.3918		0.4006	0.3920	0.3857	0.3856
TUNNEL PSI CONFIGURATION	65.59 deg Averaged data	108	80.6	0.5858 (0.4063	3376	3485	3566 3566	3629	3707	3783	3845	3840	3916	4411	3	0.8435							0.3028	0.3793	0.3815	0.3877	0.3911			•	0.3862
PSI							98					9.5					0.7185				1	0.3734	0.3764	0.4113	0.3808	0,3813	0.3824	0.3937	0.3931	0.3849	0.3848	0.3831
	PHI 61		theta: 65.6 0.9193	0.7276			0.3498	0.3595			•	0.3826	•				1: 0.5935		. 36 16+	0	34671 0.3706	0.3844	0.3561	0.3340	3804.0.3821			0.3951	0.3875	0.3841		0.3917
WTR 142 1 RUN 36	-0.06 deg		2/d 0.5		0.0.0 0.0.0			. 4 . 10	4.	5.0	က က (6 0 8		7.5	8.0		:/a r/a	625 0	.875 0	. 125	.375 0.	•		•	625 0.	875		6.375			7.125	7.3/5
	ALPH																															

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	WTR 1421 RUN 37			TUNNEL PSI CONFIGURATION	TUNNEL GURATION	T2 PRESSURE TEST PSI#1(PR/10) P	: TEST 10) PS1#2(TC/1)	(1/1)	WTR1421 RUN 37	12 t 37
Ŧ	4.95	deg	PHI	65.84 deg Averaged data		PO 14.90 P SCALE F	psta FACTOR:	10 107.40 degF 1.0000	gF MACH	3.0
					908	BODY PRESSURES	(PSI)	•		
	`	theta:	55.8	80.8		95.8	110.8	125.8	140.8	
	6 6 6	o c	5773					-		
		0	.4614	0.4647	J	0.4665	0.4684	0.4793	0.4880,0.6037	
		0	.3725					•	0.3848,0.4625	
	2.5	00	0.3408	0.3393		0.3337	0.3306	0.3284	0.3345	
) ن	2920		•		•			
		0		0.3029	•	0.3078	0.2997	0.2903	0.2729	
		0			0	0.3118	0.2991	0.2816	0.2568	
		0		0.3175	Ū	0.3149	0.3009	0.2767	0.2592	
		0		0.3201	O	0.3241	0.3032	0.2751	0.2579	
		0		0.3276	J	0.3309	0.3128	0.2843	0.2576	
		0		0.3358	Ŭ	0.3365		0.2899	0.2701	
	5.5 5	0	.3413	0.3514	Ü	0.3524	0.3287	0.3022	0.2924	
	•	0		0.3509	Ū	.3430	•	0.3133	0.3008	
	6.5	0	3417	0.3415	J	0.3374	0.3327	0.3186	0.3198	
		0	.3312	0.3365	Ü	0.3362	0.3360	0.3233	0.3268	
	7.5	0		0.3340	Ü	0.3348	0.3281	0.3273	0.3277	
		0	.3413	0.3779	0	.3488	0.3840	0.3294	0.3675	
					3	WING PRESSURES	(PSI)			
	5/4	r/d. 0 5935		7.85	8435	988	#C00 +	•	- 24 - 24 - 25	

	.875	•						-		
	. 125		_							
	3/5 0	11261 0.1449	6							
	4.625	0.1483	_	0.1436						
	•	0.1475		0.1389						
	•	0.2897		0.3116	0.1552					
		0.2190		0.1893	_					
	.625 0.	. 2965,0. 2915		0.2459	0.1345	0.1396				
	5.875	0.2906		0.2774	0.1319					
				0.2940	0.1392	0.1487	0.1413	13		
	•	0.3233	_	.3147	0.1821		0.1562	52		
		0.3208	_	3220	0.2436	0.1454	0.1529	0.1591		
	6.875	0.3188	_	3181	0.2925	0.1386	0.1522	ö	. 1530	
				3208		0.1527		0		
	7.375	0.3235		3220	0.3201	0.1965	_	ö	0.1529	

WHITE DAK LABORATORY

WTR1421 RUN 38	3.0															•																								
WTR RUN	degf		140 1			0.3843.0.5902	0.2975.0.4455	0.2532		0.2001	0.1686			_	. –	0 1743		•	0 2167	0.2428	0.3410				1.3435		•											(1	. OB49	
9	9		125.7		-	0.3767	-	0.2619	•	0.2118	0.2011	0.2009	0.2051	0. 1999	0. 1883.		0.1993	0.2080	0.2136	0.2174	0.2982		-		. 4 163	•											0000	0.0930	0.0972,0.0849	0.0853
TEST 0) PSI#2(TC/1)	psta FACTOR: 1.	(PSI)	110.7			0.3762		0.2749		0.2348	0.2202	0.2295	0.2391	0.2510	0.2597	0.2655	0.2720	0.2689	0.2612	0.2446	0.3169	(PSI)		1000	0.000										0.0726	0.0959	0.00	0.0933	0.0963	0.0845
12 PRESSURE TEST N PSI#1(PR/10) P	PO 14.91 p SCALE F	BODY PRESSURES	95.7			0.3799		0.2875		0.2919	0.3049		0.3089		0.3127	3140	0.2982	0.2893	0.2811	0.2723	0.2802	WING PRESSURES		9090	20.0					•	. •		0.0673	;	0.0872	0.0894	0 0986	0000.0	0.0900	0.0840
TUNNEL CONFIGURATION		80																				3		0 8435							0.0710	0.0702	0.0643	0.0674	0.0771	0.0929	0.1056	0.1189	0 1218	0.410
PSI COM	65.74 deg Averaged data		80.7			0.3778		0.2938				0.3155	•	0.3197	0.3213	0.3205	0.3060	0.2903	0.2801		0.3031			0 7185					0.0672	0.0582	0.2131		0.1149	0.1291					• _	
	PH			•	0.4565	0.3687			0.2423	0.2342	0.2196	0.2088	0.1954	0.2067	0.2415	0.2403			•	. 24	0.2639			5935			0.0489	0.0692	0.0680	0.0626	0.1896	0.1980	0.2036	1981		. 2291	0.2307	2325	2462	2652
	deg		theta																					r/d: 0.5	5	0.0679+	0.0	0.03431 0.	0.0	0.0	0		. 1516,0.2	0		0.2	0.5	0.2	0.7	
WFR 142 1 RUN 38	9.94		p/z	0.5	0.	e .	2.0	2.5	פי כ	n (2. d	4. ·	4 I	5.0	ა ა	•	6.5		7.5	O. 80			z/d r	.625			375				.375	.625 0	5.875	•	•		•	7.125	
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AVERAGED DATA 2/d theta: 66.0 81.0 0.5 0.449 1.0 0.3566 1.5 0.2385 2.5 0.2106 0.2385 2.5 0.2106 0.2385 4.5 0.1245 0.1245 0.1245 0.1245 0.1246 4.3 0.1249 0.1245 0.1246 0.1249 0.1249 0.1246 0.1246 0.1249 0.1249 0.1249 0.1249 0.1249 0.1249 0.1249 0.1249 0.1249 0.1249 0.1249 0.1249 0.1249 0.1249 0.1249 0.1244 0.2028 0.2014 0.2028 0.2044 0.2092 8.0 0.2044 0.2045 0.0356 0.2040 0.00892 0.00892 0.00892 0.00892 0.1393 0.1021 0.1179 0.1179 0.1179 0.1179 0.1179 0.1179 0.1179 0.1179 0.1179 0.1179 0.1179 0.1179 0.1179	E :	66.04 deg	0d	14.72 ps		10 107.23 degF	р масн	9.0
Fig. 1, theta: 66.0 81.0 81.0 0.3449 0.3566 0.3566 0.2385 0.2562 0.2562 0.2106 0.2106 0.2564 0.1245 0.1245 0.2250 0.1245 0.1245 0.2250 0.1245 0.2250 0.1246 0.2039 0.1246 0.2039 0.2031 0.2031 0.2032 0.2033 0.2032 0.2032 0.2032 0.2032 0.2032 0.2033 0.2033 0.2033 0.2033 0.2033 0.2033 0.2033 0.2033 0.2033 0.2033 0.2033 0.2033 0.20333 0.2033 0.2033 0.2033 0.2033 0.2033 0.2033 0.2033 0.2033 0.20333 0.2033 0.2033 0.2033 0.2033 0.2033 0.2033 0.2033 0.2033 0.20333 0.2033 0.2033 0.2033 0.2033 0.2033 0.2033 0.2033 0.2033 0.20333 0.2033 0.2033 0.2033 0.2033 0.2033 0.2033 0.2033 0.2033 0.20333 0.2033 0.	Ŕ	VERAGED DAT	⋖		FACTOR: 1.0	1.0000		
r theta: 66.0 1 theta: 66.0 0.3566 0.2385 0.2385 0.1467 0.1467 0.1275 0.1245 0.1276 0.1276 0.1277				PRESSURES ((PSI)		-	
0. 4449 0. 3566 0. 2386 0. 2386 0. 2385 0. 2385 0. 1467 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1244 0. 2217 0. 1347 0. 2024 0. 2044 0. 2042 0. 2044 0. 2044 0. 2044 0. 2055 0. 00435 0. 00549 0. 00576 0. 00842 0. 00871 0. 00871 0. 00872 0. 1189 0. 00676 0. 00872 0. 1031 0. 00873 0. 1169 0. 1169 0. 1170 0. 1169 0. 1170 0. 1170 0. 1169 0. 1170 0. 1170 0. 1170 0. 1169 0. 1170	0.99	81.0	96	0.	111.0	126.0	141.0	
0. 2356 0. 2387 0. 2385 0. 2385 0. 2385 0. 1467 0. 1467 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1245 0. 1246 0. 2028 0. 1244 0. 2028 0. 2044 0. 2028 0. 2044 0. 2028 0. 2044 0. 2045 0. 2046 0. 2047 0. 2047 0. 2048 0. 2047 0. 204	0.4449							
C 0.285 0.2564 0.2385 0.2564 0.1467 0.2564 0.1245 0.2398 0.1245 0.2398 0.1245 0.2311 0.1899 0.2212 0.1847 0.2212 0.1847 0.2217 0.2028 0.2217 0.2028 0.2144 0.2028 0.2144 0.2028 0.2144 0.2028 0.2144 0.2028 0.2044 0.2045 0.2048 0.2550 0.0045 0.0356 0.0045 0.0565 0.06712 0.0808 0.0712 0.06712 0.0808 0.0712 0.06712 0.0817,0.0971 0.1074 0.06712 0.0835 0.1189 0.09676 0.0987 0.1189 0.1179 0.1031 0.1169 0.1179 0.1169 0.1169 0.1179	0.3566		,					
0.2385 0.106 0.2562 0.1467 0.2564 0.1245 0.2338 0.1275 0.2338 0.1275 0.2338 0.1346 0.2217 0.1847 0.2217 0.1856 0.2217 0.1856 0.2217 0.2082 0.2116 0.2082 0.2116 0.2082 0.2116 0.2082 0.2116 0.2082 0.2116 0.2082 0.2116 0.2083 0.2116 0.2084 0.2550 0.05114 0.0356 0.0576 0.0549 0.0576 0.0817 0.0871 0.0631 0.0817 0.0871 0.0631 0.1031 0.1189 0.0676 0.1031 0.1189 0.0676 0.1031 0.1189 0.0676 0.1031 0.1179	0.2871	0.3078	0.3	119	0.3000	0.2817	0.2683,0.5739	
r/d: 0.5935 0.7185 0.2567 0.02451 0.1269 0.22564 0.1275 0.2398 0.1275 0.2398 0.1275 0.2212 0.1847 0.2217 0.2028 0.2217 0.2028 0.2144 0.2064 0.2092 0.2144 0.2065 0.07166 0.0356 0.07185 0.0631 0.0892 0.0676 0.0892 0.0676 0.0892 0.0959 0.06031 0.0892 0.0959 0.0676 0.0893 0.0959 0.0676 0.0893 0.1387 0.0676 0.0894 0.1393 0.09676 0.0895 0.1189 0.1179 0.1031 0.1169 0.1179 0.1169 0.1169 0.1179	0.2385						•	
0. 1467 0. 1300 0. 1245 0. 1234 0. 1289 0. 1231 0. 1289 0. 2212 0. 1847 0. 2212 0. 1847 0. 2217 0. 1847 0. 2217 0. 2028 0. 2144 0. 2082 0. 2082 0. 2082 0. 2082 0. 2092 0. 2082 0. 2092 0. 2082 0. 2144 0. 2092 0. 2082 0. 2144 0. 2092 0. 2092 0. 2144 0. 2092 0. 2092 0. 2092 0. 2144 0. 2092 0. 2092 0. 0356 0. 0356 0. 0356 0. 0576 0. 0603 0. 0808 0. 0676 0. 0835 0. 01892 0. 01893 0. 01893 0. 01893 0. 01893 0. 01893 0. 01893 0. 1179 0. 1169 0. 1179 0. 1169 0. 1179 0. 1169 0. 1179	0.2106	0.2562	0.5	520	0.1972	0.1903	0.1831	
0. 1300 0. 2564 0. 1245 0. 2434 0. 1245 0. 2318 0. 1289 0. 2212 0. 1389 0. 2212 0. 1472 0. 2212 0. 1847 0. 2212 0. 1956 0. 2217 0. 2082 0. 2144 0. 2082 0. 2144 0. 2082 0. 2092 0. 0. 2084 0. 2092 0. 0. 2145 0. 0. 2550 0. 0. 2085 0. 0. 2550 0. 0. 2086 0. 0. 2550 0. 0. 2086 0. 0. 2550 0. 0. 2086 0. 0. 2550 0. 0. 2086 0. 0. 2550 0. 0. 2087 0. 0. 2583 0. 0. 2087 0. 0. 2283 0. 0. 2087 0. 0. 2283 0. 0. 2087 0. 0. 2283 0. 0. 2087 0. 0. 2283 0. 0. 2087 0. 0. 2283 0. 0. 2087 0. 0. 2283 0. 0. 2087 0. 1179 0. 1031 0. 1169 0. 1179 0. 1169 0. 1179 0. 1169 0. 1179								
0. 1245 0. 2434 0. 1275 0. 2398 0. 1289 0. 2311 0. 1346 0. 2250 0. 1472 0. 2217 0. 1847 0. 2217 0. 1956 0. 2116 0. 2028 0. 2116 0. 2082 0. 2144 0. 2082 0. 2144 0. 0. 2084 0. 2092 0. 0. 2145 0. 0. 2145 0. 0. 2355 0. 7185 0. 8435 0. 0. 249 0. 0. 0576 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0				506	0.1844	0.1472	0.0532	
0. 1275 0. 2398 0. 1289 0. 2311 0. 1346 0. 2250 0. 1847 0. 2212 0. 1856 0. 2217 0. 2082 0. 2146 0. 2082 0. 2144 0. 2082 0. 2550 0. 0245 0. 0356 0. 0245 0. 0576 0. 0817 0. 0817 0. 0631 0. 0817 0. 0817 0. 0631 0. 0835 0. 1189 0. 0676 0. 0835 0. 1189 0. 0676 0. 1031 0. 1189 0. 0676 0. 1031 0. 1179 0. 1031 0. 1173	0.1245	0.2434		360	0.1721	0.1774	0.0190	
F / 0 . 1289 0 . 2311 0 . 1346 0 . 2250 0 . 1847 0 . 2217 0 . 1856 0 . 2 146 0 . 2082 0 . 2 144 0 . 2082 0 . 2 144 0 . 2084 0 . 2 092 0 . 2 142 0 . 2 550 0 . 0 142 0 . 2 550 0 . 0 142 0 . 2 550 0 . 0 138 0 . 0 6 31 0 . 0 8 17 0 . 0 5 6 5 0 . 0 8 17 0 . 0 6 3 1 0 . 0 8 17 0 . 0 6 7 1 0 . 10 3 1 0 . 1 18 9 0 . 0 6 7 6 0 . 0 8 17 0 . 0 9 7 1 0 . 1 18 9 0 . 0 6 7 6 0 . 0 8 17 0 . 0 9 7 1 0 . 1 18 9 0 . 0 6 7 6 0 . 0 8 17 0 . 0 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.1275	0.2398	0.2	475	0.1668	0.1634	0.0195	
0. 1346 0. 2250 0. 1472 0. 2217 0. 1847 0. 2217 0. 2028 0. 2144 0. 2064 0. 2092 0. 2142 0. 2550 0. 2142 0. 2550 0. 2142 0. 2550 0. 0356 0. 0356 0. 0356 0. 0356 0. 0356 0. 0356 0. 0356 0. 0356 0. 0357 0. 0578 0. 0892 0. 0578 0. 0892 0. 0578 0. 0893 0. 0678 0. 1189 0. 0678 0. 1189 0. 0678 0. 1189 0. 1179	0.1289	0.2311	0.5	382		0.1383	0.0286	
0. 1472 0. 2212 0. 1847 0. 2217 0. 1956 0. 2116 0. 2028 0. 2. 1 0. 2082 0. 2092 0. 2064 0. 2092 0. 2142 0. 2550 0. 0746 0. 05935 0. 7185 0. 8435 0. 0511+ 0. 0356 0. 02451 0. 0565 0. 0808 0. 0712 0. 0631 0. 0892 0. 0576 0. 0892 0. 0576 0. 0893 0. 0676 0. 0835 0. 1189 0. 0676 0. 0835 0. 1189 0. 0676 0. 0835 0. 1189 0. 0676 0. 0835 0. 1189 0. 0676 0. 0835 0. 1169 0. 1179 0. 1031 0. 1333 0. 0902 0. 0987 0. 1169 0. 1179 0. 1169 0. 1169 0. 1179	0.1346	0.2250	0.2				0.0265	
0. 1847 0. 2217 0. 1956 0. 2116 0. 2028 0. 2144 0. 2082 0. 2044 0. 2064 0. 2092 0. 2142 0. 2550 0. 0746+ 0. 0356 0. 02451 0. 0565 0. 0808 0. 0576 0. 0808 0. 0576 0. 0809 0. 0576 0. 0817, 0. 0971 0. 0892 0. 0573 0. 0892 0. 0673 0. 0893 0. 1189 0. 0676 0. 0835 0. 1189 0. 0676 0. 1031 0. 1833 0. 0982 0. 1031 0. 1179 0. 1031 0. 1179 0. 1031 0. 1179	0.1472	0.2212	0.5			0.0813	0.0496	
0.1956 0.2116 0.2028 0.2144 0.2082 0.2144 0.2064 0.2092 0.2142 0.2550 0.0716* 0.0511* 0.0356 0.0576 0.0549 0.0712 0.0631 0.0549 0.0712 0.0631 0.0817.0.0971 0.1074 0.0583 0.139 0.1189 0.0676 0.0817.0.0971 0.1074 0.0583 0.1031 0.1189 0.0676 0.1031 0.1189 0.0676 0.1031 0.1189 0.0676	0.1847	0.2217	0.5		0,1485	0.0843	0.0885	
5 0.2028 0.2144 0.2082 0.2144 0.2084 0.2092 0.2142 0.2550 0.0245 0.2550 0.0356 0.7185 0.8435 0.0356 0.0576 0.02451 0.0565 0.0576 0.0892 0.0576 0.0892 0.0576 0.0892 0.0578 0.1387 0.0631 0.0892 0.0631 0.0893 0.1189 0.0676 0.0835 0.1189 0.0676 0.0835 0.1189 0.0676 0.1031 0.1333 0.0902 0.1031 0.1352 0.1021 0.1043 0.1169 0.1179	0.1956	0.2116	0.2	282	0.1520	0.0797	0.0892	
0.2082 0.2144 0.2064 0.2092 0.2142 0.2550 0.2142 0.2550 0.0746 0.0356 0.02451 0.0565 0.02451 0.0565 0.02451 0.0565 0.02451 0.0576 0.0892 0.0576 0.0892 0.0576 0.0892 0.0578 0.139 0.0712 0.139 0.0712 0.0893 0.06531 0.0893 0.0676 0.0893 0.1189 0.0676 0.0894 0.1189 0.0676 0.1031 0.1189 0.0676 0.1031 0.1189 0.0676	0.2028	0.2	0.2	319		0.0907	9660.0	
5 0.2064 0.2092 0.2142 0.2550 0.2142 0.2550 0.0746 0.0356 0.03511 0.0356 0.02451 0.0565 0.0359 0.0576 0.0892 0.0576 0.0892 0.0576 0.0892 0.0578 0.0893 0.0578 0.0893 0.0631 0.0893 0.1074 0.0583 0.0894 0.1189 0.0676 0.0895 0.1074 0.0578	0.2082	C	0.2	258	0.1652	0.1062	0.1193	
0.02142 0.2550 r/d: 0.5935 0.7185 0.8435 0.0746	0.2064	0.2092	0.2	186	0.1616	0.1332	0.1291	
r/d: 0.5935 0.7185 0.8435 0.0746 • 0.0511 • 0.0356 0.02451 0.0565 0.0808 0.0576 0.0892 0.0712 0.139 0.1387 0.0631 0.0817,0.0971 0.1074 0.0583 0.0817,0.0971 0.1074 0.0576 0.0835 0.1189 0.0676 0.0835 0.1189 0.0676 0.0987 0.1352 0.1021 0.1031 0.1163 0.1173		0.2550	0.5	342	0.2726	0.2365	0.2229	
r/d: 0.5935 0.7185 0.8435 0.0746* 0.0511* 0.0356 0.02451 0.0565 0.0808 0.0576 0.0849 0.0712 0.139 0.0387 0.0631 0.0817,0.0971 0.1074 0.0583 0.0835 0.1189 0.0676 0.0835 0.1189 0.0676 0.0987 0.1333 0.0902 0.0987 0.1163 0.1179			SN1W	VING PRESCURES	(154)			
0.0746 • 0.5935 0.7185 0.8435 0.0746 • 0.0514 0.0356 0.02451 0.0565 0.0576 0.0808 0.0712 0.0549 0.0712 0.0817, 0.0971 0.139 0.139 0.0631 0.0835 0.189 0.0676 0.1031 0.1039 0.1189 0.0676 0.1031 0.1031 0.1169 0.1179 0.1169 0.1179			•					
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0.02451 0.02451 0.0565 0.0249 0.0712 0.0549 0.0712 0.0817,0.0971 0.0631 0.0817,0.0971 0.0678 0.0835 0.189 0.0678 0.1031 0.1209 0.0842 0.1031 0.1333 0.0902 0.1043 0.1169 0.1179		,	20.0					
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0.0835 0.1189 0.0676 0.1209 0.0842 0.1031 0.1333 0.0902 0.0987 0.1552 0.1021 0.1043 0.1163 0.1179 0.169 0.1169 0.1132		1074	0.0583	0.0617				
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0.1031 0.1333 0.0902 0.0987 0.1352 0.1021 0.1013 0.1163 0.1179 0.1169 0.1169	0	1209	0.0842	0.0746	0.0638			
0.0987 0.1352 0.1021 0.1013 0.1163 0.1179 0.1169 0.1169		1333	0.0902	0.0703	0.0807			
. 875 0.1013 0.1163 0.1179		1352	0.1021	0.0808	0.0774	0.0760		
. 125 0. 1169 0. 1169 0. 1132	Ö	1163	0.1179	0.0749	0.0778	0.0771,0.0537	.0537	
3011.0	0	1169	0.1132	0.0741	0.0593	0.0647		
375 0.1252 0.1274 0.1265	Ö	1274	0.1265	0.0907	0.0685	0.0760	0.0730	

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WTR:1421 RUN 40	degF MACH		163.6	0.5675,0.5857	•	0.3446	0.3428	0.3521	0.3690	0.3734	0.3735	0.3826	0.3824	0.3790	. 0		1,3438													0.3200		0.3006	
ē	10 107.12 de		148.6	0.5738	0.3841	0.3420	0.3471	0.3610	0.3563	0.3678	0.3725	0.3839	0.3760	0.3827	•		1,2185												0.3134		0.3086	0.3554	
(TEST (c) PSI#2(TC/1)	psta FACTOR: 1.	(PSI)	133.6	0.5750	0.3870	0.3410	0.3422	0.3573	0.3734	0.3697	0.3742	0.3812	0.3/72	0.3758	700.0	(PSI)	1.0935										0.3065	0.3271	0.3412	0.3941	0.3760	0.3721	
T2 PRESSURE TEST N PSI#1(PR/10) P	PG 14.63 P	DY PRESSURES	118.6		0.3889		0.3447	0.3608	0.3635	0.3703	0.3739	0.3790	0.3792	0.3639		WING PRESSURES	0.9685	•					٠	•	0.3491		0.3856	0.3810	0.3903	0.3820	0.3759	0.3770	
TUNNEL PSI CONFIGURATION	DATA	80DY	103.6		2000	3402	3439 3462	3533	3639	3699	3745	3772	0.3832			3	0.8435							0.3468	0.3348	0.3724	0.3781	0.3803	0.3832	0.3895	0.3726	0.3760	
. PS1	88 A V						3443				o ·	o (0.7185					0.3606	0.3640	0.4016	0.3736	0.3736	0.3716	0.3837	0.3842	0.3732	0.3727	0.3716	
]Hd Bəp		theta: 88.6 0.8940	0.7065 0.5597 0.4495	9.00		0.07	0.35	0.36	0.36	0.3746	0.3790	0.3821	0.396.0	•		r/d: 0.5935	0.3681•	3497+	v	33401 0.3577	0.3720	0.3399	0.3812	3683 0.3730	•		0.3877	0.3754	0.3707	0.3729	0.3751	
WTR 1421 RUN 40	РН -0.04 с		2/d 0.5		. O. c	• ₹	4 4 6 4		•	8.5	•		. r	. e	•		/4 r/	.625 0.	.875 0.	. 125	o.	4.625	4.8/5	3. 123 8 278	625 0		6.125	6.375	6.625	6.875	7.125	7.375	

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•	, II	PSI CONF	TUNNEL CONFIGURATION	T2 PRESSUR PSI#1(PR/	16 TEST 10) PSI#2(TC/1)	. (1/2.	2 0 0 0	WTR142 RUN 4	4.4 4.0 6.0 6.0
	ĕ	ERAG		SCALE	FACTOR:	8		E SAE	
			80	BODY PRESSURES	(PSI)				
88.6 0.6977		103.6		118.6	133.6	148.6	163	3.6	
35				•					
•		0.4529		0.4610	0.4753	0.4927	0	5158,0.5307	
•				•			ò	0.4032,0.4044	
0.3352		0.3321	-	0.3227	0.3229	0.3272	·.	3458	
•		7963	•	. 6200	0.00	0076		7647	
		•		2,62.0	0.5078	0.770		2642	
٠		•		1.62.0	0.2877	٠	•	2514	
•		•		0.2955	0.2858	0.2694	0	2498	
•		0.3096		0.2980	0.2811	0.2636		2500	
٠		•		0.2995	0.2808	0.2602	0	2486	
•		0.3312		0.3050	0.2870	0.2588	·:· 0	2551	
.351		•		0.3313	0.2999	0.2743	0	2670	
0.3471		0.3447		0.3285	0.3092	0.2914	0	2825	
0.3386		•		0.3261	0.3233	0.3030		2963	
0.3289		0.3335		0.3252	0.3162	0.3035		3035	
.324		0.3252		0.3209	0.3109	0.3086		3076	
.335		0.3723	-	0.3336	0.3690			3521	
			>	WING PRESSURES	s (PSI)				
5935 0.7185		rc S	0.8435	0.9685	1.0935	1.0185	č	3676	
					•				
148									
. 1344									
367 0	0.	. 1351							
1375 0.13	0	. 1275	•						
0	0.28	185	0.1455	-					
0	0.	37	0.1270						
0	0.15	48	0.1161	0.1262					
	0.21	20	0.1191						
C	0	2443	_	0 1392					
2000		37.75	•	200.0		- 6			
•	;	65.4	- '	1671.0	5				
0	0	. 2851	0.1361	0.1400	- .	o Ł	2		
0	0	.2797	•		ó	Ö	11,0.1324	4	
• •	•	. 2878	•	0. 1212	0.1219	9 0.1257	57		
•	•	2933	0.2358	0. 1216			93	0.1271	

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deg	PHI	88.42 deg		0	14.62 pste T0	107.22	degF MACH	3.0
		AVERAGED DATA	ra Body	SCALE PRESSURES		0000		
theta:	88.4 0.5565	103.4	-	118.4	133.4	148.4	163.4	
000	3654	0.3690	0	0.3689	0.3740	0.3954	0.4419.0.4578	
o c	293 258	0.2830	0	0.2667	0.2531	0.2462	0.2760	
0	283	0.2565	0	0.2271	0.2126	0.2082	0.1868	
0	. 3094	0.2865	•	0.2036	0.2023	0.1943		
0	.3139	0.3099	•	0.1905	0.2019	0.1899	0.1559	
0	.3175	0.3204		0.1700	0.1905	0.1914	-	
0	3249	0.3184		0. 1688	0.1967	0.1889	0.1230	
0 (. 3279	0.3230		. 1841	0.2032	0.1794		
S		0.3124	o (0.2408	0.2318	0.1963	0.1205	
0		0.2982	o o	. 2421	0.2485	0.2049		
0	5567.	0.2807	> (0.2472	0.2487	0.1942	0.1460	
0	, ,	0.2786	0	0.2402	0.2155			
0		0.3333		0.2589	0.2962		. ` :	
			3	WING PRESSURES	(PSI)			
0.5935		0.7185	0.8435	0.9685	4.0935	1,2185	1.3435	
				*•				
0 0471								
0.0676	Œ							
0.0694		0.0695				•		
0.0599								
0.1207		•	0.0685					•
0.1086		0.0494	0.0589		•			
0.1127		0.0506	0.0498	0.0574				
0.1138		0.0489	0.0516					
		0.0574	0.0561	0.0632	0.0552	~		
0.1753		0.0905	0.0699	0.0103	0.0808	•		
0.1871		0.1116	0.0746	0.0810	0.0772	0.0760		
Ξ.		0.1028	0.0750	0.0733	0.0782		0.0657	
0.1830		0.1170	0.0679	0.0689	0.0635			
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WTR1421 RUN 43								•																								
WTR	MACH		163.5	0.3621.0.3791	0.2138	. 1657	0.0436	0.0293	0.0071	0.0251	0.0435	0.0555	0.0818	0.1020	. 1539		24.26												•	•	5 1	0.0680
	degF		-	00	00	ö	00	>	0	0	0 0	0	0	0	0															Č	0.0	
_	107.18		148.5	0.2856	0.1631	_		0. 1376		0.1041	0.1151	0.0996	0.0987	0.0999	0.1773		1 2185							•					0	0.0388	0.0621.0.0519	0.0614
EST	1.0000	•	ம	33	02	1484	1493	1391	412	524	6/3	602	367	1083	34	_	1 0935									•	0.0350	0000	0.0602	0.033	5695	0.0580
E TEST 10) P	ps (a Factor	(PSI)	133.5	0.2733	0.1870	0.14	0.0	0.0		-	0.16		•	0.0	0.2234	S (PSI)																
T2 PRESSURE TEST PSI#1(PR/10) P	14.64 SCALE	PRESSURES	rė.	913	. 446	372	1257	377	531	610	822	1630	1426	1252	1837	WING PRESSURES	9685								0	0.0291	8780		0.0331		0.0384	0.0651
TUNNEL TO		BODY	1.8.5	0.2913	0.1944	-			-	0.0	- •		0.		0.4	MING	0.8435							0.0420	0.0381	20.00	1880	0.00	.0528 5643	7.00.0	0.0666	0.0670
PSI CONFIG	88.48 deg Averaged data		103.5	0.2998	0.2104			0. 1835			0.1940		0.2084	0.2055	0.2992																	
ď	88.48 deg Averaged																0.7185	•				0.0469		_•	0.0290	0.0204	٠.	0.0336		0.033		0.0933
·	БНІ		88.5 0.4519	0.3063			0.2486			. 2542	2396	.2309	0.2393	0.2450	0.2600		23	k I		179	0.0489	150	134	661		500	8	70	e 6	0 (7	1003
	D		theta:														r/d: 0.5935	÷	0.0468+	0	01361	0.0450	0.0334	0.0499	0.0443	8020.0.4360.0	5	7000	0.0884	0.0730	0.07	0.0
WTR 1421 RUN 43	14.94		0.8d		, 4, 4 5	, u	4.4			ις Ο υ		9 6	7.0	7.5	8.0		J 9/z	.625	3.875 0.	. 125	.375 0.	4.625	4.875	5.125		978		•		•	•	37
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WTR1421 RUN 44	MACH		186.3		0.5719,0.5831	0.4501,0.4467	3921	3397	3447	3439	3510	3558	3705	3722	3744	3842		3793	3436		1 3435														9		1 900 0
	107.28 degF		8		Ö	0	Ö	C							Ö		Ö	o	0		ı:)												33	0.3130,0.3096	52	2
			171.3		0.5785	6	0.3865	0.3403			0.3507	0.3614	0.3598	0.3686	0.3743	0.3837	0.3775	0.3815	0.3621		1.0185													0.3133	0.31	0.3052	0.35
ST PS1#2(TC/1)	1.0000				-		•														1.0935		•									0.3050	0.3278	0.3415	0.3943	0.3778	3727
RE TEST /10) PSI	psta FACTOR:	(PSI)	156.3		0.5774	6	0.3898	0.3357		0.3455	0.3511	.0.3592	0.3723	0.3707	0.3759	0.3842	0.3792	0.3773	0.4350	ES (PSI)																	
12 PRESSURE TEST PSI#1(PR/10) P	14.69 SCALE	BODY PRESSURES	£.		768	9	7	3367	3424	3459	3539	3606	3636	3728	3751 .	3836	803	3839	.4011	WING PRESSURES	0.9685									0.3216		0.3779	0.3841	0.3948			
	P0	BODY	141.3		0.5768	ć	0.3913	0.3	0.3	0.3	0.3	0.3	0.3	0.3	•	0.3	0.3803	0.3	0.4	NI ₩	0.8435	† !						3414	3627	3760			3822	3853	3916	3745	3760
TUNNEL. PS1 CONFIGURATION	11.30 deg Averaged data		126.3		0.5724	6	0.3972	0.3310	0.3418	0.3457	0.3494	0.3561	0.3638	0.3705	0.3762	0.3792	0.3834	0.3821	0.4311		Ó							0	0		Ö	0	Ö	Ö		Ö	
PS	111.30 deg Averaged																				0.7185					0.3588	0.3644	0.4032	0.3695	0.3755	0.3773	0.3722	0.3849	0.3866	0.3746	0.3725	0.3710
	PHI		111.3	0.8947	0.5632	0.4480	0.4000	0.3305	0.3428	0.3461	0.3529	0.3581	0.3634	0.3707	0.3747	0.3802	0.3827	0.3823	0.3965		5935			3395	0.3564	723	344	327	343	729	3661		3923	3775	3690	3714	758
	deg		theta:																		r/d: 0.59	. 4.	3491+	0.33	33221 0.3	0.3723	0.3344	0.3827	0.3643	3665,0.3729	0.36			0.37	0.36	0.37	0.3
WTR 1421 RUN 44	-0.08		p/z	r 0 -	1.5	2.0	9 6		4.0	4 .3	4.5	4.8	5.0	5.5	•		7.0	7.5	8 .0		z/d r	ın	.875	4.125	.375 0.	4.625	4.875		5.375	.625 0.				6.625	6.875	7, 125	
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12.1 45	3.0																																
WTR142 RUN 4	F MACH		186.3	0.5769,0.4906	0.3840	0.2895			0.267		0.2821		0.3002	0.3000		O. 3444		1.3435		•											1434		0.1358
Ē	10 107.25 degF .0000		171.3	0.5430	0.3555	0.2879		0.2748	0.2755		0.2805			•	•	0.3134		1.2185												0.1465	0.1493,0.1434	0.1346	0.1340
E TEST 10) PSI#2(TC/1)	psta FACTOR: 1.	(PSI)	156.3	0.5089	0.3390	0.2856	0.2853	0.2854	0.2851	0.2909	0.2861		0.3105		0.3106		S (PSI)	1.0935										ó	ö	0.1493	ö	ö	
L 12 PRESSURE TEST ON PSI#1(PR/10) P	PO 14.71 SCALE	BODY PRESSURES	141.3	0.4853	0.3295	0. 2930		0.2934			•				0.3192		WING PRESSURES	0.9685	•							0.1385		- .	Ö	Ö	Ö		o.
TUNNEL PSI CONFIGURATION	11.33 deg AVERAGED DATA		126.3	0.4667	0.3322	0.2925		0.3003			•				0.3204			5 0.8435					~	B 0.1600	0.	- .	0	0	- .	0	o.	- 0	4 0.1900
٩	PHI 111.33 deg AVERAGED			0.5613 0.4504 0.2643		0.2862 0.2958		0.3062 0.3086	0.3143		0.3442	ო.	e,	G.	0.3225	7		5 0.7185		0	74	6 0.1593	Ö	Ö	o				o.	o	o	Ö	.3 0.2874
21 45	93 deg		d theta:	ဝ က ဝ	o ou C	o. v.	· 0	ന്ധ	n c c	0	S	0	ស	0 1	a c	>		r/d: 0.5935	0.1743+	,	0.12831	0	0.1520		Ö	0.2771.0.	0.2833		o.	o.	o ·	0.5	0.296
WTR142 RUN 4	1 4				700	ກ [ີ] ຕ	4	4 4	, ~	ľ.			•	- 1				p/z	3.625	4.125	4.375	4.625	4.875	5.125	5.375	5.625	5.875	6.125	6.375	6.625	6.875	2	7.375

WHITE OAK LABURATORY

LPH	WIR 1421 RUN 46 9.94	бәр	PHI	PSI CONF	TUNNEL PSI CONFIGURATION 11 deg PO	12 PRESSUR PSI#1(PR/) 14,75	IE TESF '10) PSI#2(TC/1) psia TO	;/1) TO 107.55 deaf	3	R1421 N 46	
				AVERAGED DATA		SCALE	:	8		.	c.
					800	BODY PRESSURES	(PSI)				
	p/z	theta:	11.1	126.1	-	141.1	156.1	171 1	• 907		
			. 560					-	1 200.		
			. 448								
	 		0.3621	0.3686		0.3843	0.4209	0.4853	0 5657 0 3891		
									0.4344.0.3891		
	2.5		0.2832	0.2680	Ö	0.2495	0.2582	7965	0.4344,0.2091		
							1	2007	0.3618		
	3.5		0.2327	0.2218	0	2210	0.2039	0 2068	0 2440		
				0.2070	0	2125	0.2032	1808			
	4.3			0.1995		2108	0 2058		0.2228		
				0.1845		2057	•	0.000	0.2131		
	4.8			0.1794		2044	0 2 104	0.2063	0.4090		
				0.1847		2048	0 22 19	0.202			
	5.5		0.2787	0.3090		2296	0.2283	0.2073			
				0.2247		9357	2077	0.2240			
		_		0 2367	o c	7000	0.240	0.2443	0.1884		
	7.0		242	0.2466	ó	1997	0.2384	0.2319	0.1771		
	7.5		0.2405	0.2466	o c	0.2415	0.2355	0.2257	0.1802		
	α				o ·	0.2540	0.2388		0.2019		
			. C.3	0.2982	Ö	. 2740	0.3112	0.2832	0.2840		
					2	WING PRESSURES	(PSI)				
	z/d r,	r/d: 0.5935	ហ្គ	0.7185	200	900	•				
	625	0.1148*					1.0353	1.2185	1.3435		
	875	0.09211									
	4, 125	0.0750	0			•			•		
	375 0	.06171 0.0952	52								
	4.625	0.0951		0.0940					•		
	4.875	0.0847		0.0856		• ,					
	5, 125	0.1274		0.1518	0.0931	•					
	5.375	0.1156			0.0822	-					
	625 0.	1992,0.1294			0.0690	O O'ARA					
		0.1316		0.0582	0.0705						
					0.0709	0.0899	0.0741				
		0.1620		0.0747	0.0759	0.0870	0.00				
		Ξ.		0.0864	0.0797	9790.0	660.0	0			
	87	0.1656			0.0813	5000	0.032	0.0876			
	7.125	0.1644		0.0777	0.0588	0.0834	0.0938	0.0896,0.0762	0762		
	37	167			90000	0.0.0	0.0764	0.0750			
					O. 00kg	0.0003	0.0814	0.0821	0.0836		
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WHITE OAK LABORATORY

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	WIR1421 RUN 48			PSI CONF	TUNNEL PSI CONFIGURATION	12 PRESSURE TEST	E 1EST (0) PSI#2(TC/1)	(1/1)		WIR 142 RUN 4	23 48
¥.	90.0-	geb geb	PHI	134.28 deg Averaged data		PO 14.87	psta FACTOR:	10 107.43 degf 1.0000		MACH	3.0
					BOE	BODY PRESSURES	(PSI)				
	p/z	theta:	134.3	149.3		164.3	179.3	c 701			
	0.5		0.9020	•	•		?		5.603		
	0		0.7141			•					
	÷.		0.5664	0.5780		0.5836	0.5852	0.5852	0.5797,0.5868	868	
	2.0		0.4533						0.4561.0.4462	462	
	6. c		0.4040	0.4011	0	0.3947	0.3943	0.3928	0.3975	•	
	2 0		0.3233								
	න (0.3342			0.3399	0.3383	0.3439	0.3436		
	,		0.3468			0.3458	0.3467	0.3476			
			0.3494	0.3492		0.3499	0.3487	0.3518	0.3473		
	4 3		0.3567	0.3524		0.3575	0.3543	0.3546	0.3547		
	•		0.3617	0.3595		0.3653	0.3631	0.3661	0.3585		
	5.0		0.3670	0.3686		0.3684	0.3773	0.3629	3746		
			0.3735	0.3741		0.3757	0.3744	0.3725	•		
			0.3783	0.3797		0.3789	0.3797	0.3775	02750		
	9 9		0.3860	0.3830		0.3853	0.3845	0.3852	0.3981		
	7.0		0.3854	0.3855		0.3814	3808	30000	1000		
	7.5		0.3852	0.3854		0.3881	0.3806	384	0.3864		
	8.0			0.4340		4047	0.000	0.3649	0.3004		
	1				ס	٠		•	0.3484		
					3	WING PRESSURES	(184)				
	3 D/Z	r/d: 0.5935	35	0.7185	0 8435	. O. asas	2000	2010			
	625 0								. 4443		
	3.875 0.:	.3510+									
	4.125	0.3396	96			-				,	
	.375 0.	33321 0.3567	567			•					
	4.625	0.3735	35	0.3602							
	4.875	0.3344	44	0.3654							
	5.125	0.3861	61	0.4061	0.3411						
		0.3675	75	0.3721	0.3558						
		0.3699,0.3766	99	0.3766	0.3716	0.3179					
	5.875	0.3677	7.7	0.3736	0.3841)					
	6. 125			0.3851	0.3908	0.3878	0 305				
	6.375	0.4015	15	0.3968		0 3910	0.3245	· Lf			
			37	0.3886	0.3878	0.3985		B 20.00			
	6.875	0.3758	58	0.3789	0 3933	1980			907		
		0.3733	33	0.3777	0.3781	200.0			. 3 IOB		
	7.375	0.3745	S. C.	0.3738	30.00	0.3804				٠	
)			0.0000		0.3484	0.2983		

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	WTR 1421 RUN 49			TUNNEL PSI CONFIGURATION	TUNNEL	12 PRESSURE TEST V PSI#1(PR/10) P	: TEST 0) PSI#2(TC/1)	(1/3		WTR 1421 RUN 49	
Ŧ	4.92	бөр	Н	134.13 deg Averaged data		PO 14.88 P SCALE F	psta FACTOR:	T0 107.67 degf 1.0000	degF	MACH	3.0
					BODY	OY PRESSURES	(PSI)				
	p/z	theta:	134.1	149.1	-	164.1	179.1	194.1	209.1		
	0.5	_	0.7498								
	0.1	_	0.5913								
	1.5		0.4700	0.4987	_	0.5313	0.5678	0.6109	0.6496,0.4	1729	
	2.0		0.3775						0.5072,0.3647	3647	
	2.5		0.3407	0.3439	_	0.3514	0.3725	0.3975	0.4341		
		J	0.2844								
		_		0.2901	_	0.2953	0.3019	0.3212	0.3324		
		•	0.3046	0.2985	•	0.2933	0.2971	0.3091	0.3169		
	٠	_	0.3044	0.2995		0.2939	0.2947	0.3031	0.3102		
				0.2973	•	0.2958	0.2928	0.3011	0.3102		
		•	0.3055	0.2997	J	0.2989	0.2957	0.3036	0.3061		
	5.0	_	0.3058	0.3034	•	0.2975	0.3049	0.2983	0.3173		
		•	•	0.3056	_	0.3044	0.3018	0.3077	0.3205		
	0.9	_	•	0.3088	J	0.3044	0.3056	0.3144	0.3215		
	6.5	_		0.3080	,	0.3048	0.3103	0.3227	0.3384		
	7.0	•	0.3186	0.3107	J	0.3018	0.3055	0.3173	0.3333		
	7.5			0.3151	_	0.3140	0.3086	0.3199	0.3242		
		•	.337	0.3745	•	0.3307	0.3663	0.3187	0.3506	•	
					3	WING PRESSURES	(PSI)				
	2/9	565 O .P/J	LF.	0 7185	0.8435	9685	1.0935	1,2185	1,3435		
	6.75		,		3				•		
		2071+									
	125) !	v			-					
	375 0	18071	12								
	625			0.2107							
	4.875	0. 1939	6	0. 1913							
	5, 125	0.3409	60	0.3619	0.2012						
	5.375	0.3198		0.1923	0.1930						
		.3113.	T.	0.2369	0.1886	0.1788				•	
		0	-	0.2695	0.2005						
	6.125			0.2958	0.2202	0.1927	0.1750	20			
		0.3450	0	0.3238	0.2143	0.1916	0.1923	23			
	6.625		2	0.3214	0.2236	0.2067	_	914 0.1864			
		0.3232	2	0.3138	0.2378	0.2042			0.1886.0.1780		
	7, 125	0.3217		0.3226	0.2329	0.1990					
	7,375	0.3273	- 64	0.3235	0.2483	. 0.2073	0.1774	74 0 1695	0.1694		
	•	٠	•	, , ,	1 1 1 1 1 1 1)	;				

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WTR 142 1 RUN 50	3.0																															
KIR	F MACH		209.2	0.7207,0.3768	0.5627,0.2912 0.4736		0.3128	0.3067	0.3021	0.3066	0.2991		0.2867	0.2735	0.3477		1.3435													101		0.1345
-	10 107.70 degf. .0000		194.2	0.6254	0.3931		0.2681				0.2721		0.2825		0.3103		1.2185												0.1472	0.1478,0.1101	0. 1311	0.1328
TEST) PSI#2(TC/1)	pste FACTOR: 1.0	(PSI)	179.2	. 5309	0.3284	0.2371	0.2176	0.2000	0.2054	0.2181	0.2227	0.2392	0.2371	0.2405	0.2746	(PSI)	1.0935															0.1259
12 PRESSURE TEST PSI#1(PR/10) P	14.89 SCALE	PRESSURES	164.2	0.4542	0.2764	2083	. 2016 2035	. 2046	2113	. 2124	0.2264	2243	0.2159	0.2213	0.2362	WING PRESSURES	0.9685	•						•	0.1434	•	_		_	_		0.1570
TUNNEL CONFIGURATION	PO DATA	80DY	2 16			2195 0.	82 0.									3	0.8435						0.1656	-	_		-			_	0. 1337	0.1430
PS1 CO	134.19 deg Averaged data		149.	0.3994	0.2594	0.21	0.2182	0.2083	0.2106	0.2158	0.2258	0.2250	0.2222	•	0.2788		0.7185				0 1617	0.1481	0.2670	0.1353	_		_	_		0.1283		0.1396
	IHA		ta: 134.2 0.6019	0.4678	0.2962	0.2264	0.2212	0.2118	0.2114	0.2105	0.2199	0.2262	0.2223	. 223	0.2393		0.5935			0.1455	0.1630	0.1574	0.2448	0.2402	0.2493	0.2398		0.2650	0.2543	0.2375	•	0.2320
1421 50	9.97 deg		z/d theta 0.5		2.2.0 .0.0.0	3.0 3.5	•			•							r/d:	0	0.1577+		.3/3 0.13121				0.2863.							
WIR 142 RUN S	T		. •					-	•		•	_					p/z	3.6	3.8	- (. d	4	. t	5.3	5.6	5.8	9.		9.9			7.37

WHITE OAK LABORATORY

51	3.0																																	
WTR142 RUN 5	gF MACH		209.2	0.8030,0.2982 0.6305,0.2225	0.5343	0.3711	0.3571	0.3449	0.3438	0.3293	0.3223	0.4839	0.2370	0.2119	0.2262	0.3709		1.3435														.0705		0.1301
:	T0 107.88 degF .0000		194.2		0.3995	0.2915	0.2662	0.2676	0.2737	0.2833	0.2814	0.3023	200	0.2946	0.2926	0.3506		1,2185													0.1334	0.1332,0.0705	0.1176	-
TEST 0) PSI#2(TC/1)	psta FACTOR: 1.0	(PSI)	179.2	0.4938	0.2946	0.2018	0.1816	0.1755	0.1702	0.1776	0.1966	0.2079	0.2334	0.2360	0.2395	0.2368	(PSI)	1.0935											0.1282	_	0.1379	0.1353	0.1122	_
. 12 PKESSURE TEST IN PSI#1(PR/10) P	PO 14.90 p SCALE F	BODY PRESSURES	164.2	0.3733	0.2092				0.1469				•				WING PRESSURES	0.9685				•				•	0.1384		0.1490	0.1385	0.1495	0.1407	0.1338	0.1335
CONFIGURATION	34.18 deg Averaged data	98	149.2	0.2925	. 1751				1464						1869	. 2341	•	0.8435							0.1554	0.1496	0.1358	_	0.1284	*	0.1253	•	0.1076	
PSI	134.18 deg AVERAGED				0		o o		5 0						0			0.7185					0.1406	0.1351	0.2099	0.1202	0.1164	0.1043	0.1025	0.1169	0.1126	0.0942	0.0939	0.1086
	Н			0.2640	0.2029	0.1583	0.1587	0.1520	0.1448	0.1469	0.1380	0.11860	0.1927	0.1912	0.1852	0.1935		5935			1280	0.1478	1442	1475	1863	1717	1828	1804		2051	1949	1790	1848	626
	ded		the ta:															Ö	. 1714*	1494+	0	. 10931	0	0	0.0	o.	.1752,0.	0.			0		-	Ξ.
RUN 51	14.93		2/d 0.5	- 7 5 5 9 9 9	3.0 3.0	3.5	4·0	4. 4 J. H	4. 4 U a	ייני	, r	0.0	9	7.0	7.5	8.0		p/z	625 0	.875 0	4 125	4.375 0	4.625	4.875	•		•	5.875	6.125	•	•	•	7.125	•
	LPH																																	

WILLTE DAK LABORATORY

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WTR 1421 RUN 52	MACH 3.0		231.6		0.5849,0.5849	0.4596,0.4439	4004	2446	25. 15. 15. 15. 15. 15. 15. 15. 15. 15. 1	3490	3553	3584	. 3755	3795	3775	.3846	3919	.3847	.3506		1.3435												32
(1)	10 107.94 degf 1.0000		216.6 23		0.5891 0.		0.3942 0.		.3448	3542	3557	3678	3627	3734 0.	0.3775 0.	Ö	3785 0.	0.3900	0.3682 0.		1,2185											0.3190	0.3172,0.3162
TEST 0) PSI#2(TC/1)	psta FACTOR: 1	(PS1)	201.6		0.5887		0.3961	7000				0.3639	0.3803	0.3751	0.3798	0.3858	0.3770	0.3797	0.4391	(PSI)	1.0935									0.3039	0.3271	0.3426	0.3887
. T2 PRESSURE TEST DN PSI#1(PR/10) P	PO 14.89 p SCALE F	BODY PRESSURES (PSI)	186.6	•	0.5863		0.3965	7070						0.3751	0.3800	0.3846	•	0.3899	0.4056	WING PRESSURES	0.9685			-				0.3118		0.3848	0.3926	0.4192	0.3956
TUNNEL PSI CONFIGURATION	56.65 deg Averaged data	980	171.6		0.5796		0.4022	73067		3499			0.3708	.3745	0.3805					-	0.8435						0.3388				0.3873		0.4059
PSI	-)27 4				3289										3847 0	3980		0.7185				0.3592	0.3645	0.4071	0.3765	0.3730	0.3748	0.3900	0.3896	0.3933
	1Hd geb		theta: 156.	0.9027	0.5650	0.4549		0.3289	•	0.3501	0.3573	0.36		0.37	0.3797	0.38	•	0.38	0.39		r/d: 0.5935	0.3692*	0.3383	33231 0.3554	0	0.3328	0.3866	3711.0.3769	•		0.3895		0.3860
WTR1421 RUN 52	PH -0.05 d		p/z	5 O	. <u>-</u>	2.0	2.5		, d	. 4 	. 4 . 3	8.8	5.0	5.5	0.9	6.5	7.0	7.5	8.0		/1 b/z	3.625 0.3	. 873 125	375 0.	. 625	4.875	5.125 6.376	C	.875	•	6.375	•	6.875

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WTR1421 RUN 53	MACH 3.0			964	000																												
	degF		231.8	7111	0.5567,0.3600	0.3769	0.3680		0.3620	0.3689	0.3706		0.3642	0 3791	0.3639	0.3619		1 3425													.2440		
	T0 108.06 de 1.0000		216.8	0.6793	0.4433	0.3614	0.3524	0.3482	0.3464	0.3415	0.3461	0.3497	0.3481	0.3467	0.3503	0.3395		1 8 1 C 1)		-									0.2520	0.2485,0.2440	0 2322	
TEST) PSI#2(TC/1)	OR :	(PSI)	201.8	0, 6358	0.4154	0.3353	0.3303	0.3271	0.3251 0.3278	0.3380	0.3296	0.3274	0.3463	0.3251	0.3228	0.3636	(PSI)											.0.2432		0.2628	0.2646	1000	
12 PRESSURE TEST PSI#1(PR/10) P	14.89 SCALE	PRESSURES	186.8	0.5906	3868	3155	3099	3094	3092 3140	3122	3154	3118		3083	3171	.3277	WING PRESSURES	9685	 							0.2485 .		0.2589	0.2536	0.2880	0.2947	0 2074	767.0
TUNNEL CONFIGURATION	PO ATA	800Y			0 9	0			, o						2 0.	0 6	***************************************	0.8435						0.2734	0.2637	0.2672	0.2853		0.3327	0.3466	0.3705	0770	
PSI CON	156.79 deg Averaged data		171.8	0.5463	0.3686	0.2950	0.2986	0.2983	0.2953	0.3049	0.3076	0.3070	0.3057	0.3051	•	0.3699		0.7185				0.3870		0.4082	0.3405	0.3643	0.3658	0.3659	0.3795	0.3780	0.3764	0030	0000
	РНІ		ta: 156.8 0.8100		0.4006	0.2857	0.2988	0.2985	0.3007	0.3055	0.3086	0.3083	0.3130	309	•	0.3330		0.5935	,	0710	0.2749	0.2927	0.2661	0.3879	0.3646	0.3705	0.3592		0.3767	0.3653	0.3603	9776	
WTR1421 RUN 53	4.9.1 deg		z/d theta 0.5	0.1.0	2.5	3.5 3.5	4.0	6.4 E.1	<u>4</u> م ئن ھ	5.0	5.5	0.9	6.5	7.0	7.5	8.0		z/d r/d:	0	.875 0.3079+	0	.3/5 U.2594! 625	875	125	375	625 0.3487,	.875	. 125	.375	.625		125	0
≱ હ	Ŧ																		່ຕ່	m •	7	4 4	4	<u>س</u>	ις.	ι,	S.	9	9	9	9		

54	3.0																																	
WIR1421 RUN 54	gF MACH		231.6	0.8645,0.3830	0.6816,0.3000 · 0.5824	0 4417	0.4195	0.4081	0.4101	0.4083	0.1133	. 4	0.4024	0.4150	0.4001	0.4282		1 2425										•				. 1953		0.2216
9	T0 108.06 degF .0000		216.6	0.7786	0.5032	0.3956		0.3632	0.3603	0.3652	0.3612		0.3598	0.3596	0.3612	0.3556		+ ###										•			0.2458	0.2428,0.1953	0.2259	0.2248
F TEST 10) PS1#2(TC/1)	psta FACTOR: t.	(PSI)	201.6	0.6759	0.4318	0.3279	0.3114	0.3033	0.2959	0.2964			•		•	0.2752	(PSI)	1 0935											0.2344	0.2516	0.2642	0.2565		0.2351
L 12 PRESSURE TEST ON PSI#!(PR/10) P	PO 14.89 F SCALE 1	BODY PRESSURES	186.6	0.5769	0.3604	0.2702	0.2502	2450	0.2356	0.2368	0.2324	0.2259	0.2389	0.2199		0.2370	WING PRESSURES	0.9685									0.2424	(o O	o	o	Ö		0.2791
TUNNEL	56.63 deg Averaged data	ã	171.6	0.4873	0.3070	0.2159	0.2046	0.1992	0.1892	0.1911	0.2083	0.2154		0.2169		0.2841		0.8435							Ö	o (o ·	0	s ·	o ·	o O	o O	O	0.2849
ISd	-		. 0	16 5	2. 4	4 4	<u>-</u>	= !	- 2				=	=	ល	9		0.7185						•	•	0.2877	٠		•	•	•	•	•	0.3451
	DHG		theta: 156.6 0.6950	0.5336	0.3222 0.2754	0.2074	0.217	0.2141	0.2117	0.2125	0.2199	•	•	0.226	. 22	0.244		0.5935		24	0.2644	61 0.2825	0.2902	0.2588	0.4367	0 0	5.	0.4006			0.4035		0.4107	0.4055
W1R1421 RUN 54	9.96 deg		z/d ti 0.5	1.0 2.1	2.0	9.0 9.5		•	2				6.5	•	7.5	8.0		z/d r/d:	625 0.	3.875 0.3105	. 125	.375 0.257	4.625	4.875	5.125		•		•		6.625	.87	7.125	7.375
	ALPH																																	

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WTR1421 RUN 55	3.0			·			•																															
WTR	Э Е МАСН		231.7		1.0521,0.3185	0.8357,0.2456	0.7193			0.5163	0.5008	0.5075	0.5052	0.5146	0.5013	0.4890	0.4914	0.4995	0.4831	0.5566		2000	. 6463													. 14 10		0.2605
9	T0 108.14 degf 1.0000		216.7		0.8985		0.5868	!!	0.4546	0.4278	0.4190	0.4183	0.4298	0.4199	0.4298	0.4329	0.4357	0.4363	0.4434	0.4444		9	1.2163												0.2817			
E TEST 10) PSI#2(TC/1)	psia FACTOR: 1.	(PSI)	201.7		0.7255		0.4629	1	0.3460	0.3239	0.3157	0.3106	0.3135	0.3288	0.3226	0.3241	0.3344	0.3270	0.3293	0.2854	S (PSI)	000	-										o O	0.2957	Ö	Ö	Ó	Ö
:L T2 PRESSURE TEST ON PSI#1(PR/10) P	PO 14.90 SCALE	BOUY PRESSURES	186.7		0.5646		0.3469 .	!	0.2516	0.2285	0.2250	0.2130	0.2180	0.2150	0.2198	0.2181	0.2332	0.2176	0.2323	0.2474	WING PRESSURES	. 0							~		0.2779			7 0.2830				
TUNNEL I CONFIGURATION	deg GED DATA	ш.	171.7		0.4278		0.2568				0.1459	0.1341	0.1374	0.1485	0.1640	0.1717	0.1745					0 0							0.2912	Ö		o.	o.		Ö	ö	0	
ISd	PHI 156.74 deg AVERAGED		156.7	. 4230	0.3139	0.2387	. 1951	1364	1449	1583	1582	1573	1606	1657	1799	1845	1928	1901	1927	2078			0.7.83				0.3413	0.3402	0.4961	0.3378	0.3353	0.3217	0.3192	0.3308	0.3307	0.3219	0.3129	0.3099
	deg		theta: 15	o o	Ö	0	o.												0	0.		ucou 0 .7/2	> .	0.3628* 0.3435+	0.3016	31431 0.3192		0.2841	0.4770		.2902,0.4469	o		0.4555	7	0.4469	0.4548	
WTR 1421 RUN 55	РН 14.96		2/d 5/5		. .	2.0	2.5	3.0	3.5	4 .0	4.3	4.5	4.8	5.0	5.5	9.0		7.0		•		7	7 (7	3.625.0.	125	4.375 0.	4.625	4.875		5.375	.625 0	.875			•	•	7.125	7.375

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	WIR 1421 RUN 56			PSI CC	TUNNEL PSI CONFIGURATION		T2 PRESSURE TEST PSI#1(PR/10) P	ST PSI#2(TC/1)	=		WIR1421 RIN 56	
ALPH	-0.08	deg	PHI	179.37 deg Averaged data	DATA	P0 + SC	14.88 psta Scale Factor	<u>.</u> .	10 108.23 di 1.0000	degF		3.0
					980	BOUY PRESSURES	URES (PSI)	0				
	p/z	theta	179 4	701	•	,						
			0.9050	. 46.	•	209.4	224.4	₹.	239.4	254.4		
	0.1		0.7166									
	5		0.5658	7 AP C	<u>د</u>	0000	•					
	2.0		0.4558		3	0.5880	о О	0.5910	0.5917	0.5886,0.5835	35	
	2.5		0 4067	0 4035	36	0.00	(0.4616,0.4418	81	
	0.6		0.3289	5	22	0.3978	0.3	0.3974	0.3955	0.4024		
	(C)		0 3363		, in							
) <		0.3363		3339		0.3	3391	0.3456	0.3454		
) c		0.3490			0.3474	0.3	3489				
	. ن د		0.3504	0.35		0.3526	0.3	3494	0.3556	•		
			0.3573		3525			3555	0.000.0			
	₹		•	0.35	3599	0.3685		3641	0.3304			
			0.3681	0.37	3714	0.3714		3813	0.3082	•		
	5.5		0.3745	0.37	3756			2762	0.3524	•		
	0.9			0 38		2000	? c	500	0.3/45	0.3803		
	6.5		0.3873	8.0			5.0 0	3802	0.3781	0.3788		
				90.0		0.3864	0	3858	0.3836	0.3849		
	•			87.0		0.3795	.0.3787	787	0.3848	0.3924		
	, C		000	•		0.3914		786	0.3879	0.3860		
			0.3985	0.43	4330	0.4060	0.4	4395		0.3518		
					3	WING PRESSURES	SURFS (PST)					
					•			•				
	z/d r/	r/d: 0.5935	35	0 7185	20.00	•						
	3.625 0.3	0.37174			?	S	. 2083	1.0935	1.2185	1.3435		
	875	3531+										
	4.125	0.3415	15									
	4.375 0.3	.33551 0.3584	584									
	4.625	0.3743	13	0.3622			•					
	4.875	0.3360	30	0.3662								
	•	0.3893	93	0.4093	0.3430							
		0.3691	1.6	0.3734								
	Ö	3721,0.3786	91	0.3772	0.3725	•	7710					
	5.875	0.3675	5	0 3735	•	:	*					
-				0.3754			010					
=	6.375	0.3910	٥	20.00		o (38/46	0.3055				
-		•	2 5	0.65.0	0.38/8	0	3932	O. 3273				
•		0.070	ָרַ יַּ	0.3903	0.3908	ò	0.4026	0.3380	0.3151			
•	•	0.3/54	T	0.3765	0.3957	0	3906	0.3913	3161	.0.3243		
•	٠	•	2 :	0.3781		0	3828	0.3814	0 3027	7		
	6/6./	0.3935	ស្	0.3793	0.3825	0.0	3834	0.3778	0.3456	0.007.3		
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ST WTR1421 PSI#2(TC/1) RUN 57	T0 108.33 degf MACH 3.0 R: 1.0000		.0 239.0 254.0			.0	0.4600 0.4830 0.5076	3721 0.3987 0.4149	0.3952 0	.3944 0.	0.3930	0.3995 0.	Ö	0.3927 0.	0.3909 0.	0.3879 0.	0.3863 0.	0.3954 0.	3895 0.3731 0.3604	(1	1 0035 1 2184 1 3434) } •									0.3547	0.3617	0.3953 0.3138		
12 PRESSURE TES PSI#1(PR/10)	PO 14.88 ps18 SCALE FACTOR	BODY PRESSURES (PSI	209.0 224		0.6572 0.6		0.4301 0.4	0.3488 0.3	3451 0.	3459 0.	.3455 0.	3510 0.	.3484 0.	3497 0.	3438 0.	3483 0.	3377 0.	.3420 0.	0.3545 0.3	WING PRESSURES (PSI)	. 0 9685	5					G	၁ က	9 0.3487		5 0.4042	Ö	0	•	
TUNNEL PSI CONFIGURATION	179.01 deg AVERAGED DATA		194.0		0.6065	•	0.4068	0.3208	0.3222	0.3207	0.3171				0.3256	0.3333	0.3234	•	0.3723		0 7185 0 8435	•			•	0.4124	0.410/	o c	ó	Ö		Ö	C	;	öö
12.1 57	95 deg PHI		theta:	0.7002	0	0.0	O	O 161	0 0.3077	9	5	.0	0	.0	0.	Ö	.0	0.	0 0.3353		r/d· 0 5935	0.4437*	0.4259+	0	0.38641		0.3851		0.3792.		1	0.4209	_		
WIR 142 RUN 5	PH 4.		/2	0.7	-	. 2	۰ نه	າ ຕໍ່	4	4	4.	4	Ū,	Ŗ.	9	9	7.	7.	œ		۵/۵	3.625	3.875	4.125	4.375	4.625	4.8/3	5 375	5.625	5.875	6.125	6.375	A 6.05		6.875

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WTR 14 RUN	JF MACH		254.4	0.9605.0.3824	0.6553	0.5274	0.5224	0.5170	0.5083	0.5190	0.5035	0.4963	0.4969	0.4877	0.4555		1.3435												.3887		0.3428
	T0 108.55 degf 1.0000		239.4	0.9103	0.6007	0.4863	0.4764	0.4692 0.4685	0.4739	0.4619	0.4591	0.4533	0.4403	0.4530	0.4250		1.2185											0.3767	0.3975,0.3887	0.4191	0.4210
E TEST 10) PSI#2(TC/1)	ps la FACTOR: 1.	(PSI)	224.4	0.8236	0.5403	0.4231	0.4156	0.4100	0.4090	0.4190	0.4008	0.3913	0.3831	0.3716	0.3477	S (PSI)	1.0935													* .	0.4651
EL T2 PRESSURE TEST ON PSI#1(PR/10) P	PO 14.88	BODY PRESSURES	209.4	0.7236	0.4654	0.3614	0.3478	0.3459	0.3425	0.3369	0.3315	0.3193	0.3135	0.3069	0.3115	WING PRESSURES	5 0.9685	•					0.0	0.4256	•	•				0	9 0.4759
TUNNEL PSI CONFIGURATION	79.39 deg Averaged data		194.4	0.6187	0.3988	0.2942		0.2751		0.2649		0.2516	0.2496	0.2521	0.3263	•	0.843				80	(0.4/85	o o	Ö	Ö	Ó	4 0.4967	Ö	o O	5 0.4809
ď	PHI 179.39 deg AVERAGEO		179.4	0.6584 0.5106 0.3003	0.3389). 2524). 2406	0.2289	0.2213	0.2070	0.2092	7.2255	0.2402 0.3616	•				5 0.7185			7.7	0.	o (0.5498	ó	Ö	0.4938	7 0.5093			0	3 0.4825
- 8	od deg		theta:														r/d: 0.5935	0.5635+	;	0.49531			0.5314	0.3634.0.				0.5017	0.4925	₹.	0.4878
WIR 142 RUN 5	Pff 9.9		z/d 0.5	÷ ÷ ¢	2. 2. 4. 5. 72. 6	. e	2.4	4. 4	4. 4	5.0	ທີ່	היה		7.5	8.0		p/z	3.625	4.125	4.375	4.625	4 875	5.125 F 275	5.625	5.875	6.125	6.375	6.625	6.875	7, 125	7.375

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WTR 1421 RUN 59	MACH 3.0			939	158																						•			
			276.9	1.2610,0.2939	1.0157,0.2	0.7710	0.7787	0.8024			0.77645				•		1.3435												. 4915	
•	T0 108.62 degF 1.0000		261.9	1.2711	0.8647	0.7197	0.7321	0.7319	0.7572	0.7471	0.7560	0.7071	0.6889	0.6912	0.6362		1.2185											0.8639	0.8492,0.4915	
TEST) PSI#2(TC/1)	psta T FACTOR: 1.0	(PSI)	246.9	1. 1934	0.8117	0.6478	0.6570	0.6575	0.6630	0.6781	0.6386	0.6260	0.6059	0.5989	0.5366	(PSI)	1.0935									0.8402		0.8258	0.8145	
12 PRESSURE TEST PSI#1(PR/10) P	14.88 SCALE	PRESSURES	231.9	1.0637	. 7092	.5618	. ୫ ୫୫ 1 ନନ୍ଦ୍ର	. 5596	. 5632		5339	.5203		. 5239		WING PRESSURES	0.9685			•				0 8510	?	0.8201	0.8022	0.8106	0.7952	
TUNNEL CONFIGURATION	PO DATA	80DY	6		0		36 0.				98				30 0	3	0.8435						0.8698	0.8315	0.7956	0.7954	0.7955	0.7939	0.7911	
PSI CO	201.90 deg AVERAGED DATA		216.	0.8945	0.5947	0.4548	0.4436	0.4384	0.4389	0.4417	0.4328	0.4008	0.3998	0.3887	0.3130		0.7185				0.8691	0.8390	0.8256	0.7990	0.7854	0.7819	0.7920	0.7806	0.7617	
	IНИ		a: 201.9	0.8824	0.5585	0.3514	0.3370	0.3253	0.3183	0.3203	0.3092	0.2993	0.2987		•		. 5935		0.8621	0.8719	0.8445	0.8658	0.8122	7935	٠,				. 7619	
421 59	. 94 deg		<u> </u>		ဝ်က်းပေ		0,5		80 .	O 18				. S.	•		r/d: 0	5 0.8787)	0.85291	0			0.2009			5			
WIR 14	14		0 0	-	000	'n	T T	₹	4	ហ	n ve	9	7	7	80		p/z	3,625	4.12	4.37	4.62	4.87	5. 12	5.625					•	•

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WTR1421 RUN 60	gF MACH		276.7	0.5924,0.5818	0.4043	0.3475	0.3556	0,3531	0.3592	0.3783	0.3819	6086.0	0.3864	0.3923		0.3548		1.3435												.3430		0.3030
. (2)	10 108.82 degF .0000		261.7	0.5967	0.3975	0.3467	0.3518	0.3577	0.3581	0.3636	0.3764	0.3799	0.3846	0.3812	•	0.3722		1.2185											0.3206		0.3106	0.3619
RE TEST /10) PSI#2(TC/1)	psta FÁCTOR: 1	S (PS1)	246.7	0.5960	., 0.3992	0.3400	0.3505	0.3501	0.3562	0.3837	0.3780	0.3813	0.3839	0.3813	•	0.4410	ES (PSI)	5 1.0935	•						. 6	0	6 0.3120	ö	Ö	o.	7 0.3838	3 0.3798
JEL 12 PRESSURE TEST TION PSI#1(PR/10) P	PO 14.87 SCALE	BODY PRESSURES	231.7	0.5939	0.3998	0.3416		0.3541	0.3596	0.3727	0.3765	0.3813	0.3866	0.3821	0.3946	0.4077	WING PRESSURES	35 0.9685			٠			2.1		33 0.3228	54 0.3956	Ö			88 0.3847	38 0.3853
TUNNEL PSI CONFIGURATION	OI.65 deg Averaged data		216.7	0.5856	0.4053	0.3366	0.3486	0.3518	0.3530	0.3729	0.3773	0.3814	0.3851	0.3898	•	0.4335		185 0.8435				3705	3709	4110 0.3521	3750 0.3674	o c		ó	o.	Ö		3799 0.3838
	PHI 201.		201.7	0.5683 0.5683	0.4089			0.3518	0.3581			0.3833	390	.389	ღ.	0.3984		0.5935 0.7185		(0.3470	Ó	Ö	Ö	0.3709 0.37	<u>ن</u> د		3929 0.39	o o	0	3801 0.37	3818 0.37
WTR 1421 RUN 60	-0,06 deg		z/d theta: 0.5	c	, 4, 4 5, 6, 6	3. S			د. م دن ه	5.0		0.9	6.5	7.0	7.5	0.8		r/d:	.625 0.3784	1875 0.35991	275 0 24401	.625	.875	. 125	.375	875	. 125	.375 0.	625 0.	.875 0.	. 125 0.	.375 0.
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121	3.0																															
WTR142 RUN 6	F MACH		276.6	0.7641,0.4769	0.6014.0.3623	0.4430		4		0.4654	0.4339 0.4468	0.4461					1.3435					•								/262		0.4509
:	10 108.92 degF .0000		261.6	0.7708	0.5079	0.4262			₹.	0.4329	0.4381	0.4323	₹.				1,2185		·										0.4808	0.4750,0.7262	0.4550	0.4446
: TEST 10) PSI#2(TC/1)	psta FACTOR: 1.0	(PSI)	246.6	0.7520	0.4984	0 4030	 0.4097	0.4130	0.4178		0.4188		0.4046	0.4112		s (PSI)	1.0935										0.4628	0.4775	0.4708	0	0.4	
EL T2 PRESSURE T ION PSI#1(PR/10)	PO 14.87 F SCALE	BODY PRESSURES	231.6	0.7221	0.4762	3848					0.3938				•	WING PRESSURES	5 O.9685	,					_	•	0.4709		ö	Ö		ö	Ö	
TUNNEL PSI CONFIGURATION	O1.63 deg AVERAGED DATA	u	216.6	0.6769	. 4536	3580	 .3599	. 3579	. 36 12		.36/3						0.8435						0.4911	0.4723	0.4562		0.4562			0.4635	0.4434	0.4465
PSI	7					c					9 6						0.7185				0.4934	0.4788	0.4916	0.4585	0.4537	0.4443	0.4446	0.4591	0.4580		0.4435	0.4401
	TH4		theta: 201.6	0.7821		0.3377		•		0.3410	0.3448	0.3638			•		0.5935		+ '	٠ ;	331 O.4913 O.4862	0.4851	0.4725	0.4468		0.4361		0.4597	0.4475	0.4424	0.4431	0.4488
WTR 1421 RUN 61	PH 4.95 deg		2/d t			9.0 8.0 8.0		•		•					8.0		z/d r/d:	625	3.875 0.4878	. 125	4.3/5 0.469	4.875	5.125	5.375		5.875	6. 125	6.375	6.625		7.125	٠

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	WIR 1421 RUN 62			PSI CONF	TUNNEL PSI CONFIGURATION	12 PRESSURE TEST PSI#1(PA/10) P	E TEST (0) PSI#2(TC/1)	(c/1)		WIR 1421 RUN 62	
Ħ	9,95	deb	ы	201.90 deg AVERAGED DATA	PO	14.87 SCALE	psta Factor:	10 109.05 degf 1.0000		МАСН	3.0
					8007	BOOY PRESSURES	(PSI)				
	z/d 0.5	theta:	1.0537	216.9	23	6.1.	246.9	261.9	276.9		
	v		0.6571	0.7763	0.	0.8758	0.9496	0.9935	0.9861,0.3793	793	
	3,5		0.4426	0.5133	0	.5765	0.6342	0.6631	0.6755	100	
	3.5		0.3310	0.3926	Ö	4555	0.5042	0.5490	0.5820		
			0.3211	0.3857		4512	0.5112	0.5572	0.5915		
	4 4 9 6		0.3152	0.3821	ò	4538	0.5091	0.5573	0.5881		
	4.		0.3051	0.3781	i c	4577	0.5120	0.5549	0.6012		
	5.0		0.3039	0.3820	Ö	4536	0.5276	0.5597	0.6096		
	5.5		•	0.3732	Ö	4481	0.5114	0.5564			
	0.9		•	0.3610	0	4393	0.5053	0.5492	0.5760		
			0.2879	0.3475	0	4273	0.4956	0.5418	0.5759		
	7.0		0.2889	0.3633	Ö	0.4137	0.4797	0.5310	0.5726		
			. 27 1	0.3407	Ö	0.4340	0.4746	0.5323	0.5612		
	8		0.2791	0.3173	o	. 4223	0.4555	0.4996	0.4329		
					3	WING PRESSURES	(PS1)				
	1 D/z	r/d: 0.5935	Ŋ.	0.7185	0.8435	0.9685	1 0935	1 2185	3c7c 1		
	625				1)			?		
	875 0	.65091	,							,	
	מאני.	ָר מינייני	N							•	
	4.575 0.	0.6381	<u>-</u>	0.6541							
		0.6485	r.	0.6315		•					
	5, 125	0.6153	<u>6</u>	0.6317	0.6534						
		Ö	2	0.6008	0.6248						
	.625 0	.3815,0.5922	7	0.5951	0.6025	0,6339					
		0.579	9	0.5859	0.5970	,					
				0.5840	0.5973	0.6187	0.6235	NO.			
		0.5958	æ	0.5970	0.5976	0.6026	0.6335	ŭ			
		0.5787	1	9065.0	0.5981	0.6114	0.6200	0 0.6454			
		0.5713	e	0.5731	0.5986	0.5975	0.6126	0.6343	0.4497		
	7, 125		_	0.5707	0.5741	0.5865	0.5858	0.6055			
	7.375	0.564	₹	0.5647	0.5745	0.5815	0.5787		0.6114	,	

WHITE DAK LABGRATORY

12.1 63	3.0																														
WTR1421 RUN 63	gF MACH		277.0	1.2615,0.2937	0.8811		0.7797	0.8035	0.7997		0.7653	0.7585	0.7545	•	0.5635		1.3435												. 4915	1	0.8286
	10 109.09 degF .0000		262.0	1.2719	0.8653	0.7208	0.7327	0.7323	0.7587	0.7288	0.7168	0.7079		0.6921	0.63/6		1.2185			•			•					0.8644	0.8498,0.4915	0.8154	0.7923
: TEST 10) PSI#2(TC/1)	psta FACTOR: 1.((PSI) .	247.0	1. 1963	0.8124	0.6483	0.6573	0.6580	0.6636	0.6584		0.6263	0.6050	•	0.53/2	S (PSI)	1.0935									0.8403	0.8454	0.8264	0.8151		0.7748
L 12 PRESSURE TEST ON PSI#1(PR/10) P	PO 14.87 F SCALE F	BODY PRESSURES	232.0	1.0649	0.7101		0.5549		0.5642			0.5205		0.5254	0.5064	WING PRESSURES	0.9685							0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0)	0.8212		0		o ·	i 0.7692
TUNNEL PSI CONFIGURATION	201.99 deg Averaged data	•	217.0	0.8954	0.5954	0.4553	0.4438 0.4389	0.4385	0.4393	0.4331	0.4199	0.4013	0.4010		0.3130		5 0.8435				Q			0.8335		Ö	o.	0.7	o O	o.	18 0.7596
<u>a</u>	PHI 201.9 AVER		202.0	0.8831	5590 4752	3636 3522	3380	3258	3189	3156	3098	3003	2998	2746	2/43		0.7185			_	0.8700	0.8396	0.8265	0.7998	0.7845	0.7819	0.7924				0.7488
	deg		theta: 20	00	o o o	o o	o c	Ö	0	0	Ó	0	0	0 0	O		r/d: 0.5935	8196	.8683+	85411	0	0.8667	0.8132	0.7839			0.7889		•	.756	0.7591
WTR1421 RUN 63	ALPH 14.98		2/d			9. G		4. TU	•			6.5		7.5	٠			625	3.875 0	4.375 0	625	4.875	5.125	5.3/5	875	6.125	6.375	•		12	7.375
	∢																														

WHITE OAK LABORATCRY

421 64	3.0																																				
WTR142 RUN 6	gF MACH		299.5		0.5949,0.5832 0.4663.0.4376	0.4058		0.3486	0.3582	0.3550	0.3622	0.3606	0.3820	0.3832	0.3829	0.3868	0.3937	0.3874	0.3541		24.25														. 3489		0.3071
3	T0 109.36 degF 1.0000		284.5		0.5991	0.3981		0.3477	•	0.3597	0.3594	•	•	•		•	•	0.3939	0.3761			4												0.3233	0.3205,0.3489	0.3279	0.3780
TEST 0) PSI#2(TC/1)	psta FACTOR: 1.	(PSI)	269.5	1	0.5993	0.4013				0.3493	0.3561	0.3662		0.3795	0.3821	0.3831	0.3786	0.3820	0.4430	(PSI)	- C00											0.3193	0.3475	0.3595	0.4022	0.3832	0.3794
12 PRESSURE 18 N PSI#1(PR/10)	PU 14.86 P SCALE F	PRESSURES	254.5	1	0.5980	0.4013				0.3547	0.3599	0.3723	0.3751	0.3761	0.3820	0.3854	0.3826	0.3982	0.4097	WING PRESSURES	0 9685		•		٠,					0.3349		0.3985	0.3929	0.4055	0.3944	0.3863	0.3871
TUNNEL PSI CONFIGURATION	DATA	BODY	239.5		0.5892 (. 4069				3511	3528	3607	3751	3787	3814	3837	3935	3907	4336 (3	0.8435							0.3627	0.3750	0.3741				0.3948		•	0.3857
PSI	224.53 deg Averaged					0		o	o ·	o (o (o (o ·	o ·	o ·	o.	o '	o.	.0		0 7185					0.3773	0.3746	0.4118	0.3779		0.3761					0.3811	0.3819
	DHI BHI		theta: 224.5 0.9154	0.7243	0.5710	0.4110	0.3286	0.3385		0.3520			0.3699	•	0.3834		0.3921	. 38	0.3989		0.5935		57+	0.3541	111 0.3709	0.3831	0.3559	0.3920	0.3727	43,0.3836	0.3711		0.3946	0.3810	0.3784	0.3817	0.3800
WTR 142 1 RUN 64	0.09 deg			0.	s 0	2.5	3.0	3.5	•	•	4. v					٠	0.'	٠	0.8		z/d r/d:	9	875	125	375 0.35	.625	4.875		5.375	625 0.37		6. 125	•	6.625	6.875		.37
	ALPH																					٨	4	1 0	=												

WHITE OAK LABORATORY

WTR1421 RUN 65	3.0																																				
W1W NUM	gF MACH		299.5		0.7424.0.5027	0.5821,0.3780	0.5026		0.4478	0.4631	0.4605	0.4608	0.4670	0.5075	0.4934	0.4844	0.4816	0.4836	0.4723	0.3507		1.3435													. 4644		
5	T0 109.56 degF 1.0000		284.5		0.7723		0.5103		0.4328	0.4491	0.4559	0.4538	0.4642	0.4543		0.4787	0.4725	0.4631	0.4683	0.4373		1.2185												0.5351	0.5281,0.4644	0.5061	
RE TEST (10) PSI#2(TC/1)	psta FACTOR:	(PSI)	269.5		0.7770	•	0.5159		0.4181	0.4326	0.4347	0.4419	0.4484	0.4630	0.4491	0.4485	0.4597	0.4520	0.4467	0.4859	(PSI)	1.0935								•		3 0.5145	3 0.5285		Ö		•
JEL TO PRESSURE TEST TON PSI#1(PR/10) P	PO 14.86 SCALE	BODY PRESSURES	254.5		0.7664		0.5081		0.4103	4138	0.4203	0.4256	0.4359	0.4361	0.4322	0.4279	0.4293		0 4557	0.4535	WING PRESSURES	35 0.9685							. 0	6 0.5183		0.5178	0.5053			0.4923	
TUNNEL PSI CONFIGURATION	24.49 deg AVERAGED DATA		239.5		0.7352		0.4969		0.3926	0.3952	0.3962	0.3970	0.4028	0.4126	0.4110	0.4066	0.4033	0.4231	0.4308	0.4560		7185 0.8435					3343	5256 0 5367	Ö	Ö		.4824 0.5000	.4975 0.5006			4758 0.4800	
	PHI 224		224.5	1.0893					0.3730		0.3733		0.3788	•	0.3873		0.3968		0.4013	0.4221		5935 0.			51/0	9	5225 0.	5070	4819 0.	4903 0.	4753 0	0.4	4936 0	4775 0	4728 O	4735 0	
WTR1421 RUN 65	4.94 deg		_	s 0 -	- <u>-</u>	2.0	2.5	3.0	3.5		4 .3		4.8	5.0	5.5 5.5	0.9	6.5		7.5	8.0		z/d r/d: 0.	0.5352	.8/5 0.5192+	. 125	.3/5 0.51121	4.623	125	.375	.625 0.4456,	.875	•	•	.625	.875	. 125	
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	WFR 1421 RUN 66			PSI CONF	TUNNEL PSI CONFIGURATION	12 PRESSURE 1EST PSI#1(PR/10) P	1EST 0) PS1#2(TC/1)	(1)		WTR 1421 RUN 66	- 9
Ŧ	9.94	deg	РНІ	224.61 deg Averaged data	P0	14.86 SCALE	psta FACTOR: 1	T0 109.65	degF	MACI	3.6
					8007	BODY PRESSURES	(PS1)				
	p/z	theta:	224.6	239.6	25	254.6	269 6	2 PAC	000		
	6.5		1.2631			1) ;	0.	799.0		
			1.0139			٠					
	5.0	_	0.8114	0.9143		0.9806	1.0039	0.9890	0.9232,0.4048	4048	
	2.5	•	0.5570	0 6175		0.6557	1929		0.7315,0.2919	2919	
	3.0	•	0.4392	9		600	0.6/61	0.6597	0.6273		
	3.5	•	0.4295	0.4828	O	5221	0.5378				
	4.0	_		0.4781		5213	•	0.3348	0.5808		
	4.3		0.4178	0.4762	i c	5299	0.337		0.5934		
	4.5	•		0.4795	<i>.</i>	5278		0.5928	0.6200		
	4.8	_	0.4177	0.4846	Ċ	55.15	0.500 RB094	0.0970	0.65/4		
	5.0	_	0.4200	0.4938	ò	5494	0.5954	•	0.6542		
	5.5		0.4141	0.4808	Ö	5362	0 5982		0.0718		
	٠	•	0.4070	0.4762	c	0.5535			0.6542		
	6.5	•	0.4133	0.4782	Ö	5394	0.5848		0.6361		
		_	0.4095	0.4727	Ċ	0.5228	0.5545	0.0132	0.0323		
	7.5	~	•	0.4777	ó	5291	0.5643	0.5964	0.6309		
	8.0	_	0.4051	0.4397	c	5383	0.55.0		0.0182		
							0.3002		0.4245		
					NIX	WING PRESSURES	(PSI)				
	z/d r.	r/d: 0.5935	ın	0.7185	0 8435	. 4			,		
	. 625	<u></u>				0.306.0	6.0933	1.2185	1.3435		
	3.875 0.	.7139+									
	4.125	0.7144	•								
		0.70751 0.7263	53								
		_	-	0.7263							
		0.7271	_	0.7008		•					
		0.6826	5	0.6982	0.7319		•				
		0.6529	•	0.6728	0.7021						
	.625 0	.4448,0.6593		0.6669	0.6794	0.7153					
- '		0.6408		0.6549	0.6741) 					
_				0.6481	0.6741	0.7041	0 7125				
-	•	0.6506	"	0.6593	0.6722	0.6846	0 7226				
_	•	0.6315		0.6503		0.6920	0.7220	7266			
_	. 87	0.6252		0.6312	0.6642	0.6743	0.6982	0.7360	27.03.0		
	. 12	•		0.6284	0.6369	0.6575	0.6584	0.7237	0.5240		
-	7.375	. 0.6250		0.6213	0.6361	0.6492	0.6574	0.6761	0 7019		
						•)		

WHITE OAK LABORATORY

121 67	3.0																														
WTR 1421 RUN 67	degf MACH		300.2	1.1457,0.2980	0.7947	0.7625	0.8056	0.8335	0.8940		0.8732	0.8495	0.8461	0.8459 0.8335	0.5520		1.3435												.6056		0.9583
÷	10 109.38 de 1.0000		285.2	1.2608	0.8605	0.7252	0.7804	0.7845 0.7905	0.8465	0.8586		0.8240		0.7988			1.2185											0.9946	0.9818,0.6056	0.9458	0.9196
TEST 0) PS1#2(TC/1)	psta FACTOR: t.	(PSI)	270.2	1.2914	0.8881	0.7089	•	0.7680		•	•	0.7822	0.7671	0.7365	0.7100	(PSI)	1.0935				•					0.9689	0.9754	0.9548	0.9414	0.9077	0.8916
12 PRESSURE TEST N PSI#1(PR/10) P	PO 14.86 p SCALE F	BODY PRESSURES	255.2	1.2535	0.8535	0.6817		0.6930					0.6929	0.6/29		WING PRESSURES	0.9685							0.9736		0.9477	0.9224	0.9277	0.9048	0.8872	0.8751
TUNNEL PSI CONFIGURATION		80		82												3	0.8435					2000			0.9104				0.8887	∞.	0.8570
PSI CON	225.21 deg AVERAGED DATA		240.2	1.1418	0.7803	0.6144	0.6036	0.6020			0.5973	0.6164	0.5912	0.5886			0.7185				0.9768	0.9495 0.9256	0.9096	0.8973	0.8815	0.8726	0.8816	0.8686	0.8501	0.8471	0.8363
	РНІ		ita: 225.2 1.4656	0.9706	0.6706		0.5080	0.5021			0.4868		0.4906		₹.		0.5935		0.9664	0.9751	0.9540	0.9840	0.8801	0.8839	0.8636		0.8701	0.8482	0.8437	0.8381	0.8341
WTR 1421 RUN 67	14.94 deg		z/d theta 0.5	c o re c	, 7, 6 5, 70, 6	3.5		. 4 . ը.					6.5		•			0	.875 0.9613†	.375 0.96321	4.625	4.8/5 5.125	.375	.625 0.3557,	.875				ומו	ו מו	.375
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WTR 142 RUN GI	JF MACH		321.9	0.5966,0.5833	0.4070	0.3508	0.3613	0.3596	0.3656	0.3642	0.3877	0.3851	0.3899	0.3968	0.3912	0.3532		1.3435													0.3614		0.3199	
÷	T0 109.94 degF 1.0000		306.9	0.6030	0.4005	0.3485		0.3626	0.3623	0.3/50			•		0.3995	0.3771		1.2185												0.3418	•	0.3565	0.3825	
E TEST 10) PSI#2(TC/1)	ps (a FACTOR: 1.	(PSI)	291.9	0.6042	0.4034	0.3410	0.3526	0.3513	0.3580	0.3678	0.3817	0.3842	0.3847	0.3794	0.3836	0.4479	s (PSI)	1.0935														•		
EL T2 PRESSURE TEST ION PSI#1(PR/10) P	PO 14.85	BOOY PRESSURES	276.9	0.6031	0.4047	0.3421	0.3492	0.3558	0.3611	0.3759	0.3787	0.3840	0.3863	0.3826	0.4005	0.4145	WING PRESSURES	0.9685	•	٠	٠					5 0.3601		Ö	o O	Ö	Ö	Ö	4 0.3898	•
TUNNEL PSI CONFIGURATION	46.94 deg Averaged data		261.9	0.5947	0.4095	0.3385	0.3499	0.3524	0.3539	0.3022	0.3801		0.3840		0.3934	0.4358		0.8435						0.3811	o.	Ö	o.	o.	Ö	Ö	ö	Ö	0.3884	
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NSWC MP 86-356

WHITE DAK LABORATORY

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0.5033			5944 5164 5998 5302 5296 5113	0.6042 0.6065 0.6364 0.6396 0.6248 0.6345	0.6408 0.6653 0.6577 0.6530 0.6550 0.6591	
0.5062 0.5092 0.5126 0.5136 0.5424 0.5424 0.5524 0.5524 0.5524 0.7185 0.7185 0.7281 0.7291 0.7281 0.7291 0.7281 0.7291 0.7281 0.7291 0.7291 0.7291 0.7291 0.7291 0.7291 0.7291 0.7291 0.7291 0.7291 0.7291 0.7291 0.7291 0.7290 0.7291 0.7291 0.7291 0.7291 0.7291 0.7291 0.7291 0.7291 0.7291 0.7291 0.7291 0.7291 0.7291 0.7291			5998 5302 5296 5113 5493	0.6065 0.6364 0.6396 0.6248 0.6345	0.6653 0.6577 0.6530 0.6550	
0.5932 0.5126 0.5136 0.5544 0.5544 0.5544 0.7386 0.7287 0.7291 0.7287 0.7291 0.7287 0.7291 0.7291 0.7291 0.7291 0.7291 0.7291 0.7291 0.7291 0.7290		000000	5998 5302 5127 5113 5493	0.6364 0.6396 0.6396 0.6248 0.6345	0.6577 0.6530 0.6550 0.6591	
0.5126 0. 0.5126 0. 0.5424 0. 0.5609 0. 0.5524 0. 0.5524 0. 0.7185 0. 0.7287 0.7410 0.7473 0.7289 0.7287 0.6802 0.6802 0.6802 0.6802 0.6802			5302 5296 5113 5113	0.6429 0.6396 0.6248 0.6345	0.6530 0.6550 0.6591	
P. (1) (1) (2) (2) (3) (3) (4) (4) (5) (4) (5) (5) (5) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6			5296 5127 5113	0.6396 0.6248 0.6345	0,6550 0,6591 0,6532	
r/d: 0.5935 0.7185 0.7286* 0.7258* 0.7258* 0.7291 0.72871 0.7410 0.72871 0.7413 0.7295 0.7295 0.7296 0.7297 0.7306 0.7270 0.6802 0.6920			5127 5113 5493	0.6345 0.6345	0.6591 0.6532	
r/d: 0.5935 0.7185 0.7286 0.7281 0.7281 0.7281 0.7291 0.72871 0.7410 0.7346 0.7473 0.7346 0.7289 0.7095 0.7247 0.6802 0.7000 0.5522.0.6853 0.6920			5113	0.6345	0.6532	
r/d: 0.5935 0.7185 0.7286 0.7258 0.7291 0.72871 0.7410 0.7473 0.7289 0.7095 0.7289 0.7095 0.7095 0.7000 0.5522.0.6853 0.6920 0.6670 0.66794			3493		7	
r/d: 0.5935 0. 0.7386 0.7291 0.72871 0.7410 0.7346 0.7346 0.7473 0. 0.7473 0. 0.7095 0. 0.6802 0.	NING			0.5915	0.4629	
r/d: 0.5935 0. 0.7386* 0.7281 0.7291 0.72871 0.7410 0. 0.7346 0. 0.7473 0. 0.7095 0. 0.6802 0. 0.6602 0.	MING					
F/d: 0.5935 0. 0.7386* 0.7287 0.7291 0.7287 0.7410 0. 0.7346 0. 0.7346 0. 0.7473 0. 0.7095 0. 0.6802 0. 0.6852 0.6853 0.		WING PRESSURES (P	(PSI)		•	
0.7286 0.7258 0.7291 0.72871 0.7410 0.7473 0. 0.7473 0. 0.7473 0. 0.7095 0. 0.6802 0. 0.6853 0.	0.8435	0.9685	1.0935	1.2185	1.3435	
0.7258+ 0.7291 0.72871 0.7410 0.7346 0.7473 0.7473 0.7095 0.7095 0.0.6802 0.0.6853 0.0.6670						
0.7291 0.72871 0.7410 0.7346 0. 0.7473 0. 0.7095 0. 0.6802 0. 0.6670 0.						
0.72871 0.7410 0.7346 0. 0.7473 0. 0.7095 0. 0.6802 0. 0.5522,0.6853 0.						
0.7346 0. 0.7473 0. 0.7095 0. 0.6802 0. 0.5522,0.6853 0.						
0.7473 0. 0.7095 0. 0.6802 0. 0.5522,0.6853 0.						
0.7095 0. 0.6802 0. 0.5522,0.6853 0. 0.6670 0.	-	•				
0.6802 0. 0.5522,0.6853 0. 0.6670 0.	0.7517					
0.5522,0.6853 0. 0.6670 0.	0.7280					
0.6670	0.7064	0.7369				
	0.7010					
. 125 0 . 6759	0.6974	0.7299	0.7328			
375 0.6804 0.6880	0.6965	0.7107	0.7439			
.625 0.6587 0.6800	0.7004	0.7192	0.7318	0.7527		
0.6551	0.6980	0.7025	0.7245	0.7430.0 6097	6097	
0.6549	0.6690	0.6894	0.6944	0.7186		
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WTR 1421 RUN 72	3.0																					•											
WTR	F MACH		344.6	0.5963,0.5855	0.4078	0.3518	0.3629	0.3679	0.3652	0.3856	•			•		0.3539		1.3435						٠							3693		0.3341
5	T0 110.59 dagF 1.0000		329.6	0.6035	0.4015	0.3491	0.3561	0.364	0.3765	0.3674	0.3819	0.3847	0.3878	0.3824	•	0.3798		1,2185						-						0.3595	n 3484,0.3693	C. 3854	0.3829
E TEST 10) PSI#2(TC/1)	psta FACTOR: 1.0	(PSI)	314.6	0.6076	0.4048	0.3409	0.3536	0.3593	0.3690	0.3908	0.3829	0.3856	0.3851	0.3788	0.3855	0.4479	s (PSI)	1.0935								•		0.3583	0.3798			ö	0.3814
EL T2 PRESSURE TEST ION PSI#1(PR/10) P	PO 14.84 SCALE	BOOY PRESSURES	299.6	0.6061	0.4064	0.3423	0.3498	0.3616	0.3751	0.3785		0.3851	0.3873	0.3829	0.4041	0.4145	WING PRESSURES	5 0.9685		•	•		•	•		7 0.3738		1 0.3941		6 0.4066		Ö	7 0.3929
TUNNEL PSI CONFIGURATION	64 deg Raged data		284.6	0.5987	0.4116	0.3394	0.3498	0.3538	0.3626		0.3815	0.3841	0.3856	0.3963	•	0.4360		85 0.8435	•			;	40	60 67 O 1898	i c	io	0			19 0.4026		70 0.	73 0.3917
,	PHI 269.			0.7362 0.5800 0.4688	0.4165	0.3403	0.3530	0.3601	0.3660	0.3725	0.3796	0.3854	0.3943	•	. 393	0.4014		.5935 0.71			0.3686	B	0.3948 0.3940			851 0.3809					0.3849 0.3865	ö	3892 0.38
WTR1421 RUN 72	-0.09 deg		z/d theta: 0.5	o s o			4 4 0 c			•	ສ.ສ	•	6.5 5	7.0		0.8		/d r/d: 0.5	Ö	0.3778+	0	0.36781		1 1 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.3799.			o.		.875 0.3		o O
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1421	3.0																																					
WTR142 RUN 7	MACH		344.7		0 6273 0 6078	0.4895.0.4559	0.4218		0.4042		0.4359	0.4458	0.4516	◂	0.4869	0.4896	0.4947	0.5018	0.4956	0.3755			000										•			.5317	· •	0.5220
9	T0 110.75 degF 1.0000		329.7		6849		0.4475		0.3909	0.4205	0.4335	0.4359	0.4500	0.4437	0.4574	0.4734	0.4845	0.4813	0.4937	0.4687		9	2017												ò. 5508		0.5256	0.5150
E TEST 10) PSI#2(TC/1)	psta FACTOR: t.	(PSI)	314.7		0.7269		0.4803		0.3860	0.4084	0.4167	0.4303	0.4430	0.4643	0.4580	0.4596	0.4677	0.4777	0.4881	0.5407	S (PSI)						•		-				0.5288	0.5489	5392		0.5112	0.5057
L T2 PRESSURE T ON PSI#1(PR/10)	PO 14.84 SCALE	BODY PRESSURES	299.7	•	0.7594		0.5047		0.4045	0.4067	0.4154	4	0.4412	0.4472	0.4538	0.4592	0.4569	0.4649	0.5008	0.5099	WING PRESSURES	000					•				0.5320		0.5393	0.5254	0.5376	0.5224	0.5115	0.5090
TUNNEL PSI CONFIGURATION	69.66 deg Averaged data	Œ)	284.7		0.7712	!	0.5239		0.4145	0.4165	0.4168	0.4171	0.4252	0.4407	0.4492	7.4556	0.4572	0.4710	0.4786	0.5251	_	R42R					•		0.5491	0.5306		ö	0.5177	0.5223	0.5223	0.5236	0.4997	
Sa	PHI 269.66 AVERAC			1.1924		. 10		207	169	207	182	209		4321 (534	650	7 18	768	4929 (7185	•				•	•	•	•	•	0.5013	•	•	•	•	0.4957	0.4932
	geb		theta: 269	- (50	0.0	0.5				-		_	_	٠.	4.0	7 .0	4.0	4.0	٠.		r/d: 0.5935	14+	5214+	0.5249	52341 0.5397	536	0.5431	0.5235	o	4992,0.5078	. 492		. 513	₹.	. 493	. 0.4936	0.4965
WTR 1421 RUN 73	Н 4.92		_	. •	- - - 2	•	2.5	•	•	•	•	•	•	•	•		•		•	•		/J p/z	.625 0	.875 0	4 . 125	.375 0.	4.625	4.875	5.125	.375	.625 0.	5.875	6.125	6.375	6.625	6.875	7.125	7.375

WHITE DAK LABORATORY

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WTR1421 RUN 74	рғ масн		344.5	0.6478,0.6170	0.4246	0.4485	0.4845	0.4911	0.5173	0.5312	0.5565	0.5587	0.5/33	0.5900	0.6077	0.4657																.6861	•	0.6758
:	10 110.66 degF 1.0000		329.5	0.7665	0.4964	0.4241	0.4851	0.5081	0.5234	0.5520	0.5553	0.5800	0.6034	5.6107	0.60/s	0.5769		1000	CD 7												. 0.7107		0.6854	0.6715
E TEST 10) PSI#2(TC/1)	psta FACTOR: 1.0	(PSI)	314.5	0.8691	0.5740	0.4461	0.4647	0.4829	0.5151	0.5429	0.5736	0.5/2/	0.3808	0.6044	0.6033	0.6754		4000	2000			•							0.6946	0.7098	0.7013	0.6910	0.6706	0.6628
L 12 PRESSURE TEST ON PSI#1(PR/10) P	PO 14.84.	BODY PRESSURES	299.5	0.9515	0.6354	0.5004	0.4953	0.4980	0.5069	0.5332	0.5499	0.2666	0.0783	0.5803	0.5388	0.6486	WING PRESSURES	2000							•		0.7004		0.7077	0.6891	0.6981	0.6793	0,6693	0.6669
TUNNEL I CONFIGURATION	.47 deg Eraged data	15	284.5	0.9944	0.6802	0.5355	0.5308	0.5278	0.5272	0.5309	0.5461	0.35/8	0.3708	0.3814	0.533	0.6633		9070							0.7206		0.6849			0.6810	0.6806	0.6797		
ISd -	PHI 269.47 AVERA		. 4933 2299	9895 7974	5016 5534	5434	5407	5365	5386	9850	3339	34/0 566	0000	7000	5102	6352		7447				~	o.	0.7046	0.7019	0.6844	0.6785	ø	0.6628	9	0.6721	Ö		0
	deg		theta: 26	o c		0	o.	o.	o c	o o	o c	o c	s c	o c	o c	Ö		30 C .P/1	;	0.6812+	0.7053	.70341	0.7107	0.7157	0.6864	0.6595	.6463,0.	0.6461		0.6641	0.6456	0.6440	0.6419	0.6455
WTR 142 I RUN 74	PH 9.93		z/d 0.5	1.5	 	3.8	4.0	4.3	4. 4 7. 6	4. n		r (•	•		8.0		6/4		.875	. 125	4.375 0	4.625	4.875	5.125	5.375	5.625 0	5.875	6.125	6.375	. 62	.87	. 12	7.375

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121 75	3.0																																					
WTR142 RUN 7	МАСН		10 .		0,6726.0.6296	0.5245,0.4640	28		5080	5922	6098	6379	6538	6.4	665 /	6856	7 198	7649	33	5771		3435																0.8772
	degF		344.		0.67	0.52	0.4428		•	0.59	09.0	0.63	0.65	0.6752	99.0	0.68	0.71	0.76	0.7733	0.57		-	•													0.9134,0.8912		0
2	T0 110.99 0		329.5		0.8626		0.5682		0.4745	0.5838	0.6274	0.6520	0.6943	0.1090	0.7434	0.7717	0.7870	0.7947	0.8183	0.7304		1,2185													0.9160	0.9134	0.9001	0.8859
TEST) PSI#2(TC/1)	JR :	(PSI)	314.5		1.0387		0.7032		0.5436	0.5522	0.5905	0,6494	0.6901	0.7333	0.7376	0.7546	0.7924	0.7964	0.8150	0.8650	(PSI)	1.0935							-				0.9035	0.9206	0.9173	0.9162	0.8918	0.8824
T2 PRESSURE TEST PSI#1(PR/10) P	14.84 SCALE	BODY PRESSURES (1.1911		0.8136		6420	6330	6330		6758	7042	7295			0.7875		.8438	PRESSURES	0.9685						:			0.9132		0.9283	0.9103	0.9205	0.9021	0.8943	0.8896
TUNNEL CONFIGURATION	PO NTA	800 Y	78						ö	o.	o.	Ö	0	Ö	Ö					0	WING	0.8435							0.9412	0.9248	0.9086	0.9040	0.9079		0.9045		•	0.8814
PSI CONF	269.47 deg Averaged dat		284.5		1.2790		0.8927		•	0.6999	0.6942	0.6967	0.6986	0.7134	0.7246	0,7405	0.7583	0.7895	0.8092	0.8558		0.7185	•				0.9595			0.9060	0.8975	0.8821	0.8811	0.8897	0.8878	0.8640		0.8595
	1Hd		269.5	1.8490		1.0443			0.7259			0.7167	. 7.1		.71	7.	۲.	783	.805	8		រព)		o	478	34	74	98	79	558	420		589	64	58	19	26
	deg		theta:				,	•								•						r/d: 0.593	; ;			• 0		0.937	0.8698	0.847	.8149,0.85	œ		œ	Φ.	8	8	0.832
WTR 1421 RUN 75	14.94		p/z	0 -			2.5	•								0.9	•	7.0				b/z	שני היינות היינות היינות	275	40.5	4.375.0	4.625	4.875	5.125	5.375	.625 0	5.875	6.125	6.375	6.625	6.875	7.125	•
	ALPH																					ı	Λ.	.1	26													

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					WILLE	OAK LABURATORY	ATORY			
	WIR 142 1 RUN 76			PSI CONF	TUNNEL CONFIGURATION	12 PRESSURE TEST PSI#1(PR/10) P	RE TEST (10) PSI#2(TC/1)	(1/3)		WTR1421
ILP!!	-0.05	бәр	<u> </u>	292.27 deg Averaged data		PO 14.84 SCALE	ps la FACT	10 111.09 degF 1.0000		
					800	BODY PRESSURES	(PS1)			-
	2/d 0.5	theta:	292.3	307.3	С	322.3	337.3	352.3	367.3	
			0.7407)	
	- 2 .0		0.5842	0.6021		0.6080	0.6069	0.6033	0.5949.0.5881	
			0.4187	0.4139	0	0.4076	0.4060	. 40.40	0.4653,0.4420	: 0
			0.3327			1			•	
			0.3419	0.3402			. 0.3407	0.3501	0 2521	
			•	0.3512			0.3541	0.3574	•	
			0.3540	0.3539			0.3536	0.3660	0.3638	
				0.3543		. 3625	0.3601	0.3659	0.3702	
		-	•	0.3629	o.	. 3768	0.3701	0.3779	0.3656	
		- '	0.3/30	0.3791	Ö	. 3794	0.3922		0.3851	
		- '		0.3829	ö	. 3807	0.3839		0.3871	
		- '	0.3866	0.3850	Ö	3864	0.3867	0.3856	0.3876	
				0.3850	Ö		0.3860	0.3890	39.60	
		- '	•	0.3973	Ó	0.3834	0.3794	0.3854	0.3910	
	n c	- '		•	Ö	0.4044	0.3834		0.3034	
		-	0.4009	0.4356	Ö	.4148	0.4482	0.3819	0.3558	
					¥13	WING PRESSURES	S (PSI)			
	p/z	r/d: 0.5935	ī.	0.7185	0.8435	, 9685	1000		•	
	3.625 0.	0.3996*						CB1 7 . 1	1.3435	
	1010	38121								
	375 0.	37191 0	. .							
	.625			0.207.0						
		0.3877	· ~	0.3882						
		0.3961		0.4162	3005					
		0.3744	_	0.3834						
	625	0.3813,0.3868		0.3841	0.3786	7076				
		0.3709	_	0.3738	0.3830					
	•			0.3778	0.3894	0 4018	0 22 12			
	6.375			. 3978	0.3931		0.3712	•		
	. 62	0.3828			0.3999		0.3912			
	. 87	0.3858		.3873	0.4089		0.3938			
	. 12			.3894	0.3904		0.4038		.3768	
	7.375	0.4003	_				0.3823			
					•		0.3820	0.3812	0.3472	

WHITE OAK LABORATORY

1:421	3.0																														
WIR:	JF MACH		367.2		0.4376,0.5062 0.3778	0.3705	0.4014			0.4297	0.4399	0.4662	0.4794	0.4737	0.3742		1,3435												5430		0.4948
(1)	10 111.12 degf 1.0000		352.2	0.6147	0.4007	0.3592	0.3878	0.4044	0.4193	0.4119	0.4285	0.4624	0.4591	0.4775	0.4554		1.2185											0.5207		0.5007	0.4916
E TEST 10) PSI#2(TC/1)	PSIA FACTOR: 1	(PSI)	337.2	0.6638	0.4356	0.3497	0.3761	0.3989		0.4349	0.4291	0.4491	0.4570	0.4660	0.5249	S (PSI)	1,0935									0.5015	0.5202	Ö		0.4911	
IL 12 PRESSURE TEST ON PSI#1(PR/10) P	PO 14.83 SCALE	BODY PRESSURES	322.2	0.7076	0.4678.	0.3735	0.3756	0.3940	0.4120	0.4190	0.4260	0.4416	0.4457	0.4804	0.4939	WING PRESSURES	0.9685							0.5029		5 0.5177	9 0.5027	Ö	Ö	Ö	
TUNNEL PSI CONFIGURATION	92.17 deg AVERAGED DATA	w	307.2	0.7378	0.5012	0.3941	0.3957 0.3956	0.3952	0.4030	0.4195	0.42/6	0.4409	0.4588	0.4636	0.5175		0.8435					,		0.5055			0.5029	o O	ö	Ö	
PS	PHI 292.17 deg AVERAGED		292.2	.9373	.5967	~ 4	.4137	. 4	₹	. 4239	7	4549	4617	4643	. 4856		0.7185			7	0	0.5023	0.51/5	0.4903	ó	0.4825		0.5009	0.4841	•	0.4828
· •	deg		theta: 29	00		o o	00	o	0	00		0	0	0	0		r/d: 0,5935	0.5062* 0.4898+	•	.49531	0.5097	0.5138	0.4994	5047 0 4887			0.4958	0.4789		₹.	0.4926
WTR 142 1 RUN 77	PH 4.94		z/d 0.5	1.5	2.0		4 4	4.5	4.8	0. n	n C	9 6	7.0	7.5	8.0		p/z	3.625 0	. 125	4.375 0	4.625	4.875	5.125	С	.875		•		6.875	12	7.375

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WTR 142 1 RUN 78			PSI CONF	TUNNEL PSI CONFIGURATION	12 PRESSURE TEST PSI#1(PR/10) P	TEST 0) PSI#2(TC/1)	(1/3	WTR1421 RUN 78	21 78
1 9.93	gep 8	PIII	292.28 deg Averaged dala	P0	14.83 SCALE	ps ta FACTOR:	T0 111.35 degf 1.0000	MACIT	3.0
				ВОВУ	BODY PRESSURES ((PSI)		•	
p/z	theta:	292.3	307.3	32.	322.3	337.3	352.3	367.3	
6. O		1.4435							
. . .		0.9515	0.9032	· · · ·	0.8202	0.7141	0.6093	0.5061.0.7704	
		0.7673						0.3857,0.5809	
2.5		0.6669	0.6145	0	0.5401	0.4623	0.3846	0.3251	
•		0.5336							
		0.5201	0.4786	0	0.4177	0.3486	0.3294	0.3507	
•		0.5181	0.4726	Ö	0.4088	0.3621	0.3871	0.3908	
		0.5127	0.4685	0	0.4089	0.3869	0.4134	0.4042	
		0.5152	0.4629	Ö	4 104	0.4181	0.4270	0.4160	
		0.5164	0.4648	0.0	4347	0.4463	0.4536	0.4132	
•		0.5177	0.4770	0.0	4540	0.4810	0.4574	0.4308	
5.5		0.5222	0.4847	o.	4824	0.4890	0.4874	0.4378	
٠		•	0.5033	0.	5059	0.5080	0.5089	0.4545	
		0.5482	0.5183	0	5222	0.5259	0.5248	0.4797	
		0.5552	0.5352	0	0.5247	0.5355	0.5325	0.5089	
7.5		0.5685	0.5435	0	5569	0.5629	0.5625	0.5238	
•		0.5832	0.6125	0	5928	0.6211	0.5240	0.4098	
				Ž	WING PRESSURES	(PS1)			
							•	•	
p/z	r/d: 0.5935	35	0.7185	0.8435	0.9685	1.0935	5 1.2185	1.3435	
	*					1			
	0.5997+								
4.125	0.6404	74							
4.375 0	0.64341 0.6532	132							
4.625	0.6545	3	0.6641						
4.875	0.6471	-	0.6479						
5.125	0.5982	12	0.6150	0.6521					
5.375	0.5757	1.1	0.6265	0.6400					
5.625 0	.6824,0.	61	0.6219	0.6265	0.6284	•			
5.875	0.5677	7.1	0.6086	0.6257					
6.125			0.6075	0.6293	0.6452	0.6195	c)		
6.375	0.5867	1.1	0.6193	0.6308	0.6331	0.6382	2		
•		2	0.6186	0.6365	0.6447	0.6362	2 0.6318		
6.875	0.5665	35	0.6015	0.6377	0.6306	0.6370	0.6321	0.7326	
7.125	0.5693	13	0.5991	0.6143	0.6221	0.6132	0.6162		
•	0.5751	ž.1	0.5964	0.6184	0.6227	0.6080		0.5982	

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WTR 1421 RUN 79	3.0			•	•																									
,	gF MACH		367.5	0.4500.0.8844	0.3369,0.6734	0.3430	0.4032	0.4102	0.4366	0.4753	0.5124	0.5763	0.6173	•	0.4666		1.3435												.9788	
2	10 111.36 degF 1,0000		352.5	0.6053	0.3780		0.4079	0.4452	0.5055	0.5153	0.5598	0.6289	0.6485	0.7068	0.6218		1.2185											0.7788	0.7805,0.9788	1 1 1
TEST 0) PS1#2(TC/1)	psta 1 FACTOR: 1.C	(PSI)	337.5	0.7783	0.5077	0.3777	0.3779	0.4608	0.5026	0.5484	0.5695		0.6416	0.7088	0.7275	(PSI)	1.0935									0.7775	0.7958	0.8017	0.8085	
12 PRESSURE TEST N PSI#1(PR/10) P	PO 14.84 p SCALE F	BOOY PRESSURES	322.5	0.9583	0.6433	0.4937		0.4760	0.4925	0.5094	0.5524 0.5946		0.6068	0.6699	0.7022 .	WING PRESSURES	0.9685					•		7915)	0.8191	0.8149	0.8302	0.8174	•
TUNNEL PSI CONFIGURATION	⋖	80	307.5	1.1137				5820			5871	6205	6451	0.6522	7394	3	0.8435						0.8208	0.8181	0.8092	0.8175	0.8205	0.8284	0.8281	
PSI	292.53 deg AVERAGED DAT					0.	o o	o o	o O	0	o c	o o	0.		o		0.7185				0.8493	0.8300	0.6432	0.7815	0.7587	0.7472	0.7528	0.7394	0.7218	
	РНІ		theta: 292.5 1.7624	1.4751	0.9886	0.6994 0.6798	0.6733	0.6712		0.6728	0.6745		0.7102	0.7086	0.7139		0.5935	A *	0.8305	7	0.8351	0.8161	0.6271	0.6092			0.6441	0.6304	0.6378	
WIR 1421 RUN 79	14.93 deg) — — () ()	2.0	9 O	4 4 0 0	1 4 2 10	8.	5.0	ກຸນ		7.0	7.5				3.625 0.6784* 3.875 0.6645+	•	0.832	4.625	4.875	5.125 5.25	5.625 0.9107	.875			6.625	6.875	
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WTR 1421 RUN BO	JF MACII		389.9	0.5908,0.5924	0.4040	0.3520	0.3645	0.3632	0.3645	0.3838		0.3868	3910			0.3568		1.3435													7326	70/0	9776	
9	T0 111.54 degf 1.0000		374.9	0.6000	0.3992	0.3491	0.3571	0.3660	0.3779	0.3666	0.3821	0.3846	0.3882	0.3801		0.3835		1,2185												0) 00 0				>
E 1EST 10) PSI#2(TC/1)	psta FACTOR: 1.	(PSI)	359.9	0.6057	0.4049	0.3400	0.3539	0.3524	0.3698		0.3832	0.3860	0.3847	. 0.3797	0.3809	0.4484	S (PS1)	1.0935			•			-					<u>ن</u> د	ه د	o (_	0.3820	s
1. 12 PRESSURE TEST ON PSI#1(PR/10) P	PO 14.83 SCALE	BODY PRESSURES	344.9	0.6073	0.4075	0.3422		0.3581	0.3622		0.3792	0.3859	0.3872	0.3839	0.4049	0.4148	WING PRESSURES	5 0.9685			•				2		6 0.3788	6	د		o (ن د	o o	0.3968
TUNNEL. PSI CONFIGURATION	314.92 deg AVERAGED DATA	w	329.9	0.6017	0.4139	0.3399	0.3511		0.3542	0,3799	0.3823	0.3843	0.3852	0.3983	0.3955	0.4354		35 0.8435					36		0	Ö	o O	O	o ·	· o	o ·	Ö :	Ö,	02 0.3960
2	PHI 314.9 AVER		4.9 9352	7413 5838 4740	4200	3323	3544	3544	36 10 3668	3736	3801	3866	3946	3982	3945	4002		0.7185					0.3986	0.3884	0.4156	0.3828	0.3830	0.3718	0.3763	0.3963	0.3987	0.3847	0.3921	0.3902
	ld field		theta: 314 0.9	C.00	000	. O	0.3	0.3	e. 0 . c	. C	. O	0.3	0.3			0.4		r/d: 0.5935	0.3996	38141	0.3723	.37291	0.3964	0.3887	0.3954	0.3729		0.3689		0.3980	0.3808			0.3973
WTR 142 1 RUN 80	ALPH -0.07		z/d 0.5	0.2.0) ()			4. 4 (0. 6		, ru				7.5	0.8		b/z		3.875 0	4.125	4.375 0	4.625				. 625	5.875		6.375		•		7.375
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WIR14 RUN	degf MACH		389.7	0 5101 0 7309	3987	0.3494	0.3423	0.3623	0.3560	0.3633	0.3621	0.3900	0.4109	0.4216	0.4306	0.4420		0.3706		1 3435)))												1	0.5270		0.4580
<u>-</u>	10 111.63 de		374.7	0 5520		0.3619	0.3349	0.3544	0.3660	0.3650	0.3769	0.3705	0.4057	0.4259	0.4351	0.4295	4	0.4320		1.2185													0.4847	0.4845,0.5270	0.4669	0.4594
TES1 0) PSI#2(TC/1)	psia FACTOR: 1.0	(PSI)	359.7	0 5953	2	9068.0	0.3190	0.3446	0.3499	0.3580	0.3689	0.3917	0.3905	0.4038	0.4164	0.4207	0.4351	0.4976	(PSI)	1.0935											0.4611	0.4888	0.4823	0.4848		0.4588
12 PRESSURE TEST N PSI#1(PR/10) P	PO 14.83 p SCALE F	BODY PRESSURES	344.7	8448		0.4235	0.3364	0.3405	0.3495	0.3556	0.3718	0.3771	0.3845	0.3992	0.4060	0.4042		0.4655	WING PRESSURES	9685))))								0.4628	!	0.4805	0.4712	0.4941	0.4777	0.4696	0.4690
TUNNEL PSI CONFIGURATION	DATA	B0	329.7	6807		0.4602	.3604	3622	3612	3589	3661	3823	3876	.3948	4011	.4179	. 4323	. 4707	3	0.8435)						0.4196	0.4676	0.4555	0.4598	0.4667	0.4725	•		0.4603	0.4651
PSI	e						0					52 0.		020 0	0	0		370 0		0.7185) ; ; ;				0.4792	0.4651	0.4848	0.4579	0.4589	0.4516	0.4556	0.4753	0.4741	0.4567	0.4639	0.4570
	deg PHI		theta: 314.7	0.8870	0.5632	0.4938	0.3844	0.3882	0.3849	0.3876	0.3919	0.3952	₹	₹.	₹.	0.42	4	₹.		d. 0.5935	*	.4464+	0.4533	5471	0.4724	0.4734	0.4654		.459	0.4443		0.4698	0.4512	0.4492	0.4525	0.4629
W1R1421 RUN 81	4.93		2/d 0.5			2.5				4.5				9 .0		7.0	7.5	8.0		.b/3 b/z	625	875	. 125	.375 0.4	4.625	4.875	5.125	.375	625 0	5.875	6.125	6.375	6.625	. 87	7, 125	. 37
	ALPH																																			

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			TOT COM TOOM TO		(1/21/2/16/17)	•		KUN 82
бөр	ын	314.93 deg AVERAGED DATA	P0	14.83 p SCALE F	psta FACTOR: 1	T0 111.78 de 1.0000	degf MACH	3.0
			BODY	PRESSURĖS	(PSI)			
theta	314.9	329.9	34	344.9	359.9	374.9	989.9	
	1.2962			•				
	0.8397	0.7609	0	0.6641	0.5658	0.4777	0.4114.0.9043	
	0.6760						0.3120,0.6902	
	0.5853	0.5094	0	. 4275	0.3561	0.2955	0.2657	
	₹.							
	₹.	0.3873		3203	0.2579	0.2705		
	₹	0.3790	Ö	3085	0.2870	0.3068	0.3040	
	₹.	0.3737	0	3085	0.3081	0.3261	0.3020	
	0.4391	0.3629	0	3093	0.3263	0.3334	0.3126	•
	0.4414	0.3649	0	3368	0.3489	0.3542	0.3085	
	4	0.3775	0	3573	0.3827	0.3527	0.3287	
	₹.	0.3773	0	3846	0.3913	0.3799	0.3415	
	0.4359	0.3882	Ö	4040	0.4067		0.3548	
	0.4486	0.3970	0	4116	0.4180	0.4093	0.3734	
	0.4389	0.4075	0	0.4156	0.4448	0.4245	0.4002	
	0.4277	0.4047	0	0.4661	0.4722	0.4726	0.4311	
	0.4426	0.4761	0	4777	0.5094	0.4335	0.3733	
			2 3	WING PRESSURES	(PSI)			
r/d: 0.	0.5935	0.7185	0.8435	0.9685	1.0935	1,2185	1.3435	
0.5053+								
48891								
_	0.5514							
55701 0	0.5656							
Ö	0.5724	0.5792		, i				
o O	0.5623	0.5652						
0	0.4847	0.5033	0.5680					
o O	0.4596	0.5427	0.5585					
.6588,0.	. 4682	0.5364	0.5471	0.5423				
Ö	4494	0.5221	0.5499	•				
		0.5183	0.5552	0.5637	0.5315			
	4708	0.5288	0.5575	0.5555	0.5612			•
	4529	0.5207	0.5632	0.5777	0.5576	0.5466		
0	.4493	0.5022		0.5612		Ö	0.7243	
o.	4552	0.5002	0.5436	0.5537	0.5386			
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WHITE DAK LABORATORY

WTR1421 RUN 83	э.о																																
` ₹	JF MACH		390.1	0.3017,1.1205	0.2147,0.8548	0.2112	0.2507	0.2814		0.3090	0.3203	0.3745	0.4217	0.4499	0.3710		1,3435) 							-						. 9805		
<u> </u>	10 111.95 degF .0000		375.1	0.3999	0.2332	0.1912	0.2572	0.2918	0.3184	0.3232	0.3500	0.4216	0.4482	0.4925	0.4271		1,2185								-					0.6280	0.6317,0.9805	0.6319	
TEST 3) PSI#2(TC/1)	psta FACTOR: 1.0	(PSI)	360.1	0.5353	0.3296	0.2275	0.2275	0.2739	0.3086	0.3521	0.3703	0.4251	0.4489	0.4767	0.5041	(PSI)	1.0935	! ! ! !										0.6222	0.6532	0.6602	0.6740	0.6632	
T2 PRESSURE TEST N PSI#1(PR/10) P	PO 14.83 PS SCALE F	BODY PRESSURES	345.1	0.6933	0.4466	0.3274	0.3119	0.3013	0.3108	0.3145	7242	6062.0	0.3894	0.4400	0.4726	WING PRESSURES	0.9685	 							. 1	0.6407		0.6//2	0.6732	0.7038	0.6936	0.6966	
TUNNEL CONFIGURATION	DATA	108	330.1	0.8567	0.5810		0.4271			4240	4179	3980	3941	3784	5183	3	0.8435							0.6673	0.6700	0.6664	0.6695		0.6751	0.6791	0.6924	0.6519	
PSI	315.13 deg AVERAGED DATA				0								Ö	0	Ö		0.7185					0.6873	0.6566	0.4018	0.6086	0.5779	0.5388	0.5084	0.5017	0.4810	0.4600	0.4536	
	IHd		е - 	1.2389	0.7103	0.5435	0.5369	0.5328	0.5364	0.5365	0.5243	0.5244			0.4860		5935			0.6529	0.6659	0.6630	0.6625	0.3813	0.3655		.3707		. 4062	0.3977	. 4031	0.4158	
12.1 83	.95 deg		d theta		on c	نەرخ	O M	າທ	80	0 4	n C	מי	0.	.5.	0		r/d: 0	0.4347		O	0.66741					0.8817,0	0						
WTR142 RUN 8	ALPH 14.		2/2	<u>-</u>	, v, c	ກ່ ຕ່	- 4	4	4	மிய			7.	7.	80		9/2	9	3.875	4, 125	4.375	4.625	4.875	5, 125	5.375	5.62	5.875	6. 125	6.375	6.625	6.875	7	

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WTR 142 RUN B, MACH MACH MACH MACH MACH MACH MACH MACH	0.3811 0.3780,0.3845 0.3864 0.3810 0.3497
19F 4 12 4 12 7 12 12 12 12 12 12 12 12 12 12 12 12 12	- 0 4 0
10000 1.0000 1.0000 397.7 0.3967 0.3651 0.3656 0.3651 0.3650 0.3651 0.376 0.3878 0.3878 0.3878 0.3878 0.3878	0.3811 0.3780 0.3864 0.3810
1EST Sta ACTOR: (PSI) 382.7 0.6034 0.4030 0.3522 0.3580 0.3581 0.3581 0.3581 0.3581 0.3581 0.3581 0.3581 0.3581 0.3795 0.4480 (PSI)	0.3923 0.3964 0.4033 0.3811 0.3818
T2 PRESSURE S CALE Y PRESSURES 67.7 6054 4064 3485 3572 3616 3777 3868 3853 3868 3822 4057 4146 0.9685	0.3888 0.4054 0.3979 0.3938 0.3936
TUNNE DATA DATA B 7 15 15 23 36 34 44 44 44 0.3948 0.3895 0.3868	0.3898 0.3976 0.4071 0.3885 0.3962
337. AVE 0.71 0.39 0.38 0.38	0.3963 0.3987 0.3844 0.3872 0.3894
theta: 337.7 theta: 337.7 0.9354 0.7424 0.7424 0.7424 0.3319 0.3319 0.3538 0.3939 0.3937 0.3937 0.3937 0.3937 0.3937 0.3937 0.3937 0.3947 0.3947 0.3880 0.3951 0.3947 0.3880 0.3951 0.3947 0.3880 0.3951	0.3980 0.3808 0.3804 0.3844 0.3891
11 de	6.375 6.625 6.875 7.125 7.375

WHITE OAK LABORATORY

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WTR1421 RUN 85	3.0																															
WIR	F MACH		412.4	0.4781.0.7653	3765,0.579	0.3246		0.3321		0.3695	0.3895	0.4036	0.4139	0.4137	0.3696		1 3435	1												. 4844		0.4190
£.	T0 112.07 degF .0000		397.4	0.5035	0.3371	0.3193	0.3288			•	0.3/24		0.3927	0.4185	0.3994		1 2 185												0.4414	0	0.4295	0.4242
LE TEST 10) PSI#2(TC/1)	psta FACTOR: 1.	(PSI)	382.4	0.5366	0.3553	0.3039	0.3229			0.3642	0.3655	0.3726	0.3859	•	0.4530	S (PSI)	1.0935							-			0.4183	0.4428			•	
EL T2 PRESSURE T ION PSI#1(PR/10)	PO 14.82 SCALE	BODY PRESSURES	367.4	0.5739	0.3791	0.3071	0.3148			0.3475			0.3685	•	0.4196	WING PRESSURE	5 0.9685		•				σ	· •	9 0.4198		9 0.4415			Ö	Ö	0 0.4404
TUNNEL PSI CONFIGURATION	37.42 deg AVERAGED DATA		352.4	0.6114	0.4127		0.3259			0.3467			0.3681	ო.	0.4142		85 0.843					7.5	58 0 4349	Ö	o.	0		Ö	o.		0.4	45 0.4310
	PHI 337.42 AVERAG		337.4		0.5122 0.4492	0.3498 0.3469	0.3512	0.3494	0.3531	0.3560	0.3604	0.3748		က	0.3791		5935 0.7185		,	4014	۵	0.4290 0.4302		0.4064 0.4190					172	149	177 0	275 0.4245
WTR!421 RUN 85	4.91 deg		z/d theta:	0. 1	2.5	3.0 3.5			•	ro O r				•			/d r/d: 0.		0.3962+		0.40471				0.4561	0		0	0	Ö	0	
RUN	Ī																N	ю (m ·		4 •	•	מני	'n	IJ.	'n.	9	ø.	9	9	7.	7.

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WTR 1421 RUN B6	gF MACH		412.5		0.3768,0.9858	0.2955,0.7574	0.2680	0.2525			0.2572		0.2629		0.2701		0.3283	0.3360	0.3379		1 3435)												.6436		0.4350
9,	10 112.14 degF 1.0000		397.5		0.4003		0.455/	0.2484	•	0.2656	0.2671	0.2799	0.2728	0.2869			•	0.3766	0.3622		1 2185												0.4670	0.4667,0.6436	0.4577	0.4516
TEST)) PSI#2(TC/1)	psta FACTOR: t.	(PSI)	382.5		0.4496	222	0.2111	0.2290	0.2504	0.2538	0.2600	0.2746			0.3193	0.3527	0.3393	0.3569	0.4063	(PSI)	1.0935										0 4505	0.4743	0.4738	0.4785	0.4650	0.4638
12 PRESSURE TEST PSI#1(PR/10) P	14.82 SCALE	PRESSURES	367.5		0.5220	1,776	. 35.	.2350	. 2290	.2422	. 2511	. 2766	. 2863	. 2982	.3159	. 3207	.3129	. 3540	. 37 18	WING PRESSURES	0.9685		•						0.045.00	666.0	0.4806	0.4716	0.4871	0.4769	0.4756	0.4897
TUNNEL PSI CONFIGURATION	g DATA	BODY	ស			2067												3047 0.	3337 0	3	0,8435							0.4806	0.4/49		0.4681		0.4737	0.4807		0.4772
PSI C	337.51 deg AVERAGED DATA		352		0.6047	•	•	0.	0			0.2585		o O			Ö	0	o.		0.7185						•	•	0.45/4				•	0.4074		0.4019
	PHI		theta: 337.5	0.8739	0.6882	0.5507	0.3636	0.3496	0.3447	0.3368	0.3337	0.3322	0.3257	0.3341	315	0.3154	n	•	0.2957		0.5935	•	_	0.4432	31 0.4589	0.4764	0.4746	0.4110	0.3831	0.3675	•	0.3876		0.3638	0.3713	0.3744
WTR 1421 RUN 86	9.94 deg		2/d tl	? O.	7.5 0	6 6 7	3.0	3.5	4.0	4.3	4.5	4 .8		•	•	•	7.0	7.5	8.0		z/d r/d:	.625 0.	3.875 0.4039	. 125	.375 0.452	4.625	4 . B / D	5.125	5.3/5 5.625 0.5953	875		6.375		6.875	7.125	7.375
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WTR142 RUN 8	р. масн		412.5	0.2831,1.2596	0.2012		0.1785	0.1792		0.1916		0.2121		0.2445	0.2424	0.2455		1,3435														.8610		0.4675
2	10 112.30 degF 1.0000		397.5	0.2835	0.1776			0.1914		1948	0.2222	0.2352	0.2416	0.2365	0.2661	0.2466		1,2185													0.5041	0.5240,0.8610	0.5064	0.5047
. TEST 0) PSI#2(TC/1)	psia FACTOR: 1.0	(PSI)	382.5	0.3548	0. 1999			0.1756			0.2280	0.2348	0.2519	0.2478	0.2732	0.3522	(PSI)	1.0935											0.4871	0.5159	0.5352	0.5474	0.5267	0.5273
. T2 PRESSURE TEST ON PSI#1(PR/10) P	PO 14.82 P SCALE F	BODY PRESSURES	367.5	0.4639	0.2809			0.1/01				0.2282	0.2491	0.2566	0.3005	0.3159	WING PRESSURES	0.9685									0.5058		0.5334	0.5342		0.5395		0.5340
TUNNEL PSI CONFIGURATION	37.51 deg Averaged data	98	352.5	0.5968	0.3876	0.2731	0.2614	0.2535 0.2360	7.2354	0.2506	0.2508).2264	0.2210	0.2417	0.2646	0.3404	•	0.8435							0.5407	0.5351	0.5067	0.4980	0.4909	0.4910	0.4583	0.4183	•	0.3494
ISd	337.51 deg AVERAGED														O	J		0.7185					0.5102	0.4466	0.2456	0.3284			0.2328					0.2277
	IHd		1.1658	0.7432	0.5145	0.3934	0.3653	0.3517	0.3537	0.3447	0.3374	0.3395	0.3317	317	86	0.3028		5935			0.3950	0.4110	0.4542	0.5351	0.2228	0.2062	0.2228	2 103		2452	2279	2253	6	2463
	deg		theta															r/d: 0.5	•08		O	.48671	0	0	0		. 7949.	0		0	0	0	·;·	
WTR 142 1 RUN 87	14.95		2/4	c		9.0 .0	0.4				5.5	•	6.5	•	7.5	8.0		p/z	625	875	4,125	4.375 0	4.625	4.875	5, 125	5.375	5.625 0	•			6.625	•		ღ.
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WTR142 RUN BI	JF MACH		435.0	0.5835,0.6029 0.4568.0.4496	0.4010	0.3478		0.3595				•	•	•	0.3919	9		1.3435													.3791		0.3403
:	10 112.54 degf 1.0000		420.0	0.5926	0.3960	0.3458	•	0.3638			•					0. 3861		1.2185												0.3726	0.3623,0.3791	0.3865	0.3809
: TEST 10) PSI#2(TC/1)	PSIA FACTOR: 1.	(PSI)	405.0	0.5999	0.4015	0.3370		0.3476	0.3665	0.3916	0.3808	0.3835	0.3825	0.3726		0.4482	(PSI)	1.0935										0.3615	0.3910	0.3964	0.4051	•	0.3825
L 12 PRESSURE TEST ON PSI#1(PR/10) P	PO 14.81 F SCALE F	BODY PRESSURES	390.0	0.6042	0.4057	0.3403	•	0.3556			•	0.3840	0.3854	0.3791		0.4147	WING PRESSURES	0.9685								0.3751			o O	o O	0	Ö	0.3973
TUNNEL PSI CONFIGURATION	ATA	98		1.0	6.	89	4	2 5	80	22	70	18	e .	9 !	ភូ	2		0.8435						0.3900	0.3869	0.3744	0.3792	0.3851	0.3902	0.4005		0.3883	0.3947
PS1 CON	359.95 deg Averaged data		375.0	0.6007	0.4129	0.3388	0.3494	0.3510	0.3608			0.3818		0.3996		0.4333		0.7185				0.3935	0.3830	0.4115	0.3799	0.3799	0.3682	0.3733		0.4005	0.3848	0.3877	0.3894
	H		 .0	0.7835 0.5835 0.4746				0.3530							393	0.3984		0.5935			0.3633	0.3908	0.3837	0.3915		. 382	0.3651		•	•	•	. 38	0.3884
- 88	6ep 6(d theta	.		~ ·~	~	•••	· ~		,,,	^	·C	~ ·	n '	_			3935	0.3755+	16736 0					0.3797.	-				_	_	~
WTR 142 RUN B	-0.09		z/d 0.5	c		 	0.4	4. 4 		5.0	5.5	J . 9	6.5		S). B		p/z	3.625	3.8/5	4.123				5.375	•	•	•	•	•	œ	N	7.375
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WHITE OAK LABORATORY

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WTR1421 RUN 89	эғ масн		435.2		0.4650,0.7678	0.3720,0.5810	0.3350				0.3261		0.3312	•	0.3783		0.3917	0.3998	•	0.3694			1.0433													. 4055		0.3532
:	10 112.64 degF 1.0000		420.2		0.4788		0.3302		0.3096		0.3273					•		•		0.3740			1.2185												0.3818	0.3877,0.4055	0.3886	0.3857
E TEST 10) PSI#2(TC/1)	psta FACTOR: t.	(PSI)	405.2		0.5002	•	0.3390	0	0.2996	0.3143	0.3119	0.313/	0.3206	0.3422	. 0. 3344.	0.3400	0.3508	•		0.4260	S (PSI)		6560.1			i de							Ö				Ö	0.3875
:L 12 PRESSURE TEST ION PSI#1(PR/10) P	PO 14.81	BODY PRESSURES	390.2		0.5232		0.3514				0.3157	0.3133		0.3284	0.3282	0.3337	0.3312	0.3424	0.3812	0.3917	WING PRESSURES		0.9083		٠				<i>.</i>		0.3719		Ö	Ö	3 0.4155		Ö	
TUNNEL PSI CONFIGURATION	360.20 deg Averaged data	m	375.2		0.5505		0.3730		0.2984	0.3055	0.3069	0.3030	0.3101	0.3253	0.3277	0.3275	0.3201	0.3368	0.3373	0.3733			0.8433				9	ស្ច	0.3841	Ö		o.	Ö	Ö	o.	0	o.	0 0.4002
Q.	PHI 360.2 AVER). 2 2.2	0.9235 0.7315	5741	4624	4051	3128	3141	3195	3151	3136	3188	3223	325/	3289	3366	3327	3253	3367		9	0.7.83				0.3813	0.3755	0.4092	0.3814	0.3841	0.3773	0.3817	0.4046	0.4072	0.3908	0.3934	0.3960
	deg P		theta: 360	2.0	0.5	0.4	4.0	.0	0.0	0.0	0		· ·	0.0	0		0.3			0.3		(17u 0.5935	0.3710*	3320+	35451		0.3774	0.3888	Ö	0.4167,0.3867	0.3713		0.4053	0.3882	0.3868	ღ.	0.3964
WTR 1421 RUN 89	4.93		p/z		1.5	2.0	2.5	O 1	6. 6.	6. d		4.4	a. 1	י סי		0.9	6.5	7.0	7.5	8.0			0/7		.8/5 .0 0.0	4 375 0	.625	4.875	5, 125	.375	.625	5.875	•		6.625	6.875	. 12	7.375
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	147	360.20 deg Averaged data	P0	14.81 p	psta FACTOR:	T0 112.64 degF 1.0000		MACH 3.0
			BODY	BODY PRESSURES	(PSI)			
theta:	360.2	375.2	39	390.2	405.2	420.2	435.2	
	0.8846							
	0.5372	0.4745	0	0.4227	0.3938	0.3764	0.3757.0.9818	818
	0.4277	-					0.3046.0.7533	533
	0.3688	0.3058	0	2660	0.2607	0.2668	0.2821	!
	0.2703	•						
	0.2576		o.	2269	0.2311		0.2572	
	0.2493	•	ò	2284	0.2342	0.2267	0.2803	
	0.2382	0.2138	ö	2351	0.2287	0.2290	0.2909	
	0.2298	0.2106	Ö	2326	0.2279	0.2211	0.3349	
	0.2274	0.2226		2472	0.2360	0.2309	0.3214	
	0.2222	0.2420	Ö	2480	0.2590	0.2227		
	0.2246	0.2423	Ö	2515	0.2561	0.2404	0.3228	
	0.2250	0.2408	0	2633	0.2688	0.2435		
	0.2427	0.2455	0	2529	0.2803	0.2613	0.3165	
		0.2681	°	2453	0.2765	0.2605	0.3176	
	0.2680	0.2743	Ö	2795	0.2754	0.2926	0.3033	
	0.2862	0.3247	o.	2974	0.3342	0.2720	0.2941	
			Ž	WING PRESSURES	(PSI)			
0.5935	35	0.7185	0.8435	0.9685	1.0935	1.0184	1 3435	
								٠
2+								
0.3638	38							
37301 0.3806	908							
0.3991	16	0.3990						
0.3914	4	0.3915						
0.3793	93	0.3995	0.3978					
0.3568	68	0.3856	0.3988					
0.5160,0.3712	12	0.3854	0.3889	0.3877				
0.3498	86	0.3730	0.3914	•				
		0.3726	0.3958	0.4138	0.3849	G		
0.3754	54	0.3920	0.3995	0.4017	0.4097			
	59	0.3921		0.4194	0.4078	0.4037		
0.3517	1.7			0.4098	0.4145		0.4059 0.4857	
0.3492	6	0 3705		0 4045	0 3923			
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WTR142 RUN 9	gF MACH	•	435.3	0.3070, 1.2430	0.2091	0. 1651	0.1871	0.1857	0.1667	0.1922	0.1958	0.1972	0.2021	0.2063		0.2308		1.3435														. 6158		0.3887
:	T0 112.84 degF 1.0000		420.3	0.2939	0.1965		0.1454	0.1677	0.1760	0.1631	0.1907	0.1977	0.2029	0.1821		0.2147		1.2185								-					0.4171	0.4200,0.6158	0.4008	0.3984
RE TEST /10) PSI#2(TC/1)	psta FACTOR:	S (PSI)	405.3	0.2865	0.1932	0.1598	0.1668	0.1577	0.1726	0.2040	0.2069	0.2134	0.2048	0.1886	0.2041	0.2959	ES (PSI)	5 1.0935			•						6						0	7 0.3782
TUNNEL 12 PRESSURE TEST URATION PSI#1(PR/10) P	PO 14.81 SCALE	BODY PRESSURES	390.3	0.3147	0.1784		0.1654	0.1667	0.1835		0.1898	0.2058	0.2103	0.2095		0.2581	WING PRESSURES	35 0.9685							3991	3733	3461 0.3859					o.	0	2095 0.3207
TUNNEL PSI CONFIGURATION	360.34 deg AVERAGED DATA		375.3	0.3953	0.2414	0.1529	0.1473	0.1402	0.1541	0.1812	0.1921	0. 1996	0.2109	0.2339		0.2781		0.7185 0.8435					0.3682	3426	2919 0.	Ö	Ó	ó	Ö	ó	0.2062 0.28	ó	o	. 1704 0.
	E IHd		a: 360.3 0.8385	0.5009	0.3388	0.2254	0.2151						0.2010		C. 1	0.2386		. 5935			0.3345	æ				2344	2365	.2118		2304	2103	2027	. 2047	. 2028
WTR1421 RUN 91	14.93 deg		z/d theta 0.5	c s c	2 2 5 5 5 5	3.5 3.5	4.0	4 4	. 60	5.0	5.5	0.0	6.5	7.0	7.5	0.8		z/d r/d: 0	625	3.875 0.3090+		.375 0.34151	. 625	.875	. 125	.375	.625 0.6621,	5.875 0	. 125	. 375	. 625	.875	r.	7.375 0
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WIR1421 RUN 9 MACII 0.1776, 0.1724 0.1374, 0.1463 0.0938 0.0952 0.0953 0.0968 0.0968 0.0968 0.0968 0.0965 0.0965 0.0965 0.0968				~	
, , , , , , , , , , , , , , , , , , , ,		900	1660	0.1043	
71) T0 71.52 degf. 0000 58.9 0.1854 0.0945 0.0908 0.0819 0.0829 0.0829 0.0922 0.1301 0.0945 0.0945 0.0945 0.0945 0.0945 0.0945	2680	0.0997	0.0985,0.0991	0.0996	
TEST 118 (CTOR: 1 (PSI) 43.9 0.1624 0.0915 0.0916 0.0768 0.0976 0.0976 0.0936 0.0936 0.1041 0.1051 0.1051 0.1051 0.1051 0.1051 0.1051 0.1051 0.1051 0.1051	0.0925	0.0970	0.0943	0.1030	
12 PRESSURE S SCALE S S S S S S S S S	0.0999	0.0899	0.0987	0.0881	
GURATI GURATI B B B B B B B B B B B B B B B B B B B	0.1013	0.0367	0.0330	0.0920	
AVE. 0 0.77	0.0966	0.1062	0.1062	0.0944	
deg PIII theta: -1.1 0.3170 0.2416 0.1936 0.1936 0.0854 0.0987 0.0986	0.0956	0.1044	1066	0. 1060	
MIR1421 RUN 9 RUN 9 74.03 deg 7.04 th 7.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05					

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WTR 1421 RUN 10	gF MACH		73.8		0.1330,0.2380	0.1070,0.1976	0.0895	0.0836	6020.0	0.0806	0.0754	0.0992	0.0795	0.0832	0.0860	0.0903	0.0889	•	0.0925		1.3435													. 1171		0.1022
2	T0 71.61 degF 1.0000		58.8		0.1423		0.0955	0.0847	0.0807	0.0715	0.0803	0.0750	0.0985	0.0818	0.0925	0.0850	0.1239		0.0950		1.2185												0.0973	0.0970,0.1171	0.0980	0.0962
TEST D) PSI#2(TC/1)	psta 1.C	(PSI)	43.8		0.1436		0.0950	5060 0	0.0812	0.0957	0.0935	0.0897	0.0676	0.0833	0.0895	0.0979		0.1215		(PSI)	1.0935							·			0.1062	0.0904	0.0949	0.0931	0.1014	0.0977
T2 PRESSURE TEST IN PSI#1(PR/10) P	PO 14.72 PS SCALE FA	BODY PRESSURES	28.8		0.1495	,	0.0982	0.0863		0.0766	0.0923	0.0677	0.0683	0.1012	0.0854	0.0925	0.1165	0.0711	0.1256	WING PRESSURES	0.9685		•				•		0.0994		0.0899	0.0916	0.0882	0.0968	0.0949	0.0892
TUNNEL PSI CONFIGURATION	leg D DATA	80	3.8		0.1655	1	0. 1027	0.0796	0.0823					0.0793	8060.0	8060.0	0.0775	8060.		•	0.8435						0.1063	0.0886	0.0191	0.0946	0.1015	0.0981	0.0948	0.0945	0. 1016	0.0942
PSI	I -1.17 deg AVERAGED DATA		2 1	200														•			0.7185				0.0970	0.1106		0.0932	0.0933	0.1077	0.1035	0.0940	0.0934	0.1052	0.1017	0.0971
	deg gəb		theta: -1.2	0.3153	0.1924	0.1270	0.40	0.1016	0.07	0.086	0.08	0.08	.80.0	.80.0	0.07		•	0.094			r/d: 0.5935		.0962+	10391 0 1111			0.1046	o.		0.1085				0.1029		0.1047
WTR1421 RUN 10	РН 4.98 d		p/z			•	2. c	. w			4.5	•		5.5		6.5	7.0	7.5	0° 8		p/z	.625	.875 0		625	•	5.125	.375	.625 0		6.125	•	•	6.875	7	7.375

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WIR142 RUN 1	gf MACII		74.0	0.1031,0.3256	0.0874,0.2670	0.0690	0.0524	0.0616	0.0759	0.0566	0.0652	0.0693	0.0737	0.0733	0.0748		1.3435												1513) -	0.1067
2	T0 71.58 degf 1.0000		59.0	0.1090	0.0777	0.0699	0.0639	0.0543	0.0544	0.0772	0.0629	0.0752	0.0696	0.1070	0.0735		1.2185					-						6	0.1018 0.1513	0.1029	0.1019
TEST 0) PS1#2(TC/1)	••	(PSI)	44.0	0.1071	0.0735	0.0768	0.0651	0.0787	0.0699	0.0482	0.0654	0.0732	.0.0839	0.1130	0.1049	(PSI)	1.0935									0	0.10/9	75000	0.0986	0.1064	0.1045
- 12 PRESSURE TEST ON PSI#1(PR/10) P	PU 14.72 psta SCALE: FACTOR	BODY PRESSURES	29.0	0.1197	0.0759	0.0702	0.0682	0.0592	0.0485	0.0490	0.0824	0.0695	0.0790	0. 1004 0.0548	0.0924	WING PRESSURES	0.9685	•							0.1010	0.00	0.0932	0.1003	0.1028	0.1007	0.0943
TUNNEL PSI CONFIGURATION	-1.00 deg AVERAGED DATA	98	14.0	0.1444	9980.0	0.0622	0.0625	0.0650 0.0678	0.0652	0.0459	0.0601	0.0745	0.0776	0.0637	.0738	•	0.8435						0.1059	0.0899	0.0997	0.0956	0.00	0.0966	0,0950	0.0977	0.0885
184	PHI -1.00 deg		.0											0564 0	-		0.7185				0.0909	0.1025		0.0859	0.0859	0.0990	0.0933	0.0805	0.0891	0.0835	0.0769
	deg pe		theta: -1.0	0.2334	0.0970	0.0948	0.0657	0.0737	0.0711	0.0690	0.0684	0.0595	0.0536	0 0	•		r/d: 0.5935	1	0.0867+	0.09541.0.1025			0.0929	0.0856	. 1645,0.0793	0.0316	0.0753	0.00	0.0821	0.0845	0.0847
WFR 1421 RUN 11	66.6		z/d 0.5	0 9 0	, 6, 6 5, 6, 6	9.0 9.0	4.0	4 4 U.C	8.	5.0				7.0	0.8				3.875 0.0			4.875	5.125	5,375	0	5,8,5	6 375	-	6.875	7, 125	7.375
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	WTR1421 RUN 12			TUNNEL PSI CONFIGURATION	TUNNEL GURATION	T2 PRESSURE TEST I PSI#1(PR/10) P	RE TEST (10) PSI#2(TC/1)	10/1)		WTR 1421 RUN 12	21
፤	15.00	deg	PHI	-O.96 deg AVERAGED DATA		PO 14.71 SCALE	psta FACTOR:	10 71.70 degF 1.0000	degF	MACH	4.0
					BOC	BODY PRESSURES (PSI	(PSI)				
	p/z	theta:	1.0	14.0		29.0	44.0	29.0	74.0	0	
	0.5	0	. 2958								
	0.1	Ö	2274								
	1.5	.0	0.1827	0.1260	J	0.0937	0.0858	0.0960	0.09	0.0942,0.4336	
	2.0	0.	1199				•		0. 10	0.1024,0.3548	
	2.5	0	0953	0.0898	J	0.0987	0.1005	0.1034	0.0984	84	
	3.0	Ö	1005								
	3.5	.0	0.0816	0.0947	J	0.1027	0.1062	0.0981	0.0973	73	
	4.0	0	9836	0.0967	J	0.0998	0.0942	0.0923	0.0823	23	
	4.3	Ö	6660	0.0998	J	0.0904	0.1072	0.0820	0.0908	98	
	4.5	0	0941	0.1052	J	0.1053	0.1043	0.0907	0.0853	53	
	4.8	0.	8760	0.1028	J	0.0813	0.0999	0.0855	0.1087	87	
	5.0	0	1660	0.0836	J	0.0818	0.0793	0.1078	0.0904	04	
		0	1017	0.0951	J	0.1123	0.0954	0.0942	0.0971	7.1	
		0	0973	0.1081	J	0.1006	0.1037	0.1065	0.1014	14	
		0.	0.0945	0.1124		0.1106	0.1150	0. 1030	0.1082	82	
		0.	0972	0.1000	J	0.1346	0.1455	0.1414	0.1079	79	
	7.5	0.	1146	0.1092		0.0901	0.1372	0.1090	0.1278	78	
					0	. 1233		0.1044	0.0997	16	
					•					-	
						WING PRESSURES	S (PSI)				
	z/d r	r/d: 0.5935		0.7185	0.8435	0.9685	1 0935	1 2185	-	3435	
	3.625								•	!	
	0	. 1066+									
	4.125										
	4.375 0.	10671 0.1108									
	4.625			0.1010							
	4.875			0.1117							
	5. 12E	0.1103			0.1098						
	5.375	0.1055		0.0989	0.095						
	.625 0.	2232,		0.1005	0.1048	0.1050	_				
	5.875	0.1150		n. 1132	0.1016						
	6.125			0.1110	0.1088	0.0998	Ö	1136			
	6.375			0.1040	0.1070	0.1063	Ö	1021			
	6.625	_		0.1055	0.1059	0.1012	Ö	1072 0.1097	1		
	6.875	_		0.1149	0.1079	0.1098	o.	1073 0.1116	0.1116,0.2002		
	7.125	117		0.1122	0.1132	0.1085	Ö	1146 0.1137			
	7.375	0.1255			0.1051	0.1040	ó	1132 0,1152		0.1205	

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	PHI	21.37 deg AVERAGED DAT	⋖	PO 14.71	14.71 psta SCALE FACTOR:	T0 71.84 degF 1.0000	JF MACH	4.0
			308	BODY PRESSURES (PSI)	ES (PSI)			
theta:	21.4 0.3141 0.2398	36.4		51.4	66.4	81.4	96.4	
	0. 1929 0. 1286	0. 1803		0. 1771	0.1774	0. 1835	0.1759,0.1717	
	0.1046	0.1124	J	0.1144	0.1154	0.1174	0.1114	
	0.0816	0060.0		0.0974	0.1017	0.0939	0.0926	
	0.0850	0.0936		0.0966	0.0915	0.0900	0.0806	
	0.0945	0.101.0		0.0876	0.1049	0.0809	0.0898	
	0.0978	0.0994		0.0784	0.0985	0.0841	0.0849	
	0.0981	0.0803	J	0.0788	0.0773	0. 1066	0.0886	
	0.0988	0.0916		0. 1096	0.0932	0.0917	0.0936	
	0.0919	0.1019		0.0955	0.0988	0.1013	0.0953	
	0.0837	0.1021	٠ ر	0. 1016	0.1059	0.0935	0.0983	
	.082	0.0855	J	0. 1219		0.1283	0.0958	
	0.0984	0.0943	J	0.0756	0.1228	0.0941	0.1139	
			0	0.1131		0.0885	0.0737	
			3	WING PRESSURES	RES (PSI)			
r/d: 0.5935	22	0.7185	0.8435	0.9685	1.0935	5 1.2185	1.3435	
0.10/14				•				
0.10821 0.1145	2.0							
	!	0.1017						
		0.1143						
0.1101	11		0.1091					
0.1029	6	0.0969	0.0925					
0.1050,0.0988	8	0.0967	0.1010	0.1003	23			
0.1109	60	0.1091	0.0969		!			
		0.1048	0.1029	0.0918	18 0.1055	ભ		
0.0954	4	0.0960	0.0992	0.0981		ı (C		
0.1080	0	0.0956	0.0962	0.0909		6 0 0972		
0.1017	7	0.1031	0.0954	0.0978			0975	
0.1041	-	0.0988	0.1000	0.0944				

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WIR1421 RUN 14	MAC		96.5		0	0.1069,0.1885	0.0890	0.0769	0.0642	0.0745	0.0694	0.0931	0.0742	0.0799	0.0822	0.0862	0.0867	0.1086	0.0987		1.3435													0870		0.0802
	T0 71.88 degF 1.0000		81.5		0.1382		0.0949	7080	0.025	0.0658	0.0751	0.0689	0.0924	0.0765	0.0864	0.0799	0.1188	0.0884	6060.0		1,2185												0.0738	0.0743,0.0870	0.0744	0.0753
E TEST 10) PSI#2(TC/1)	OR:	(PSI)	66.5		0.1332		0.0926	0 0805	0.0769	0.0904	0.0875	0.0835	0.0616	0.0774	0.0834	0.0921	0.1233	0.1159		S (PSI)	1.0935					•					0.0789	0.0684	0.0713	0.0695	0.0768	0 0761
L T2 PRESSURE TEST ON PSI#1(PR/10) P	PO 14.71 psta SCALE FACT	BOOY PRESSURES	51.5	•	0.1358		0.0925.	0 0849	0.00.0	0.0724	0.0872	0.0623	0.0626	0.0941	0.0793	0.0871	0.1114	0.0676	0.1074	WING PRESSURES (PSI)	0.9685	•		•					0.0742			0.0743	0.0676	0.0785	0.0812	080.0
TUNNEL PSI CONFIGURATION	21.46 deg Averaged data	8	36.5		0.1465		0.0922	0.0766	0.0782	0.0809	0.0859	0.0829	0.0628	0.0738	0.0843	0.0868	0.0750	0.0873			0.8435						0.0827	0.0672	0.0764	0.0731	0.0816	0.0825	0.0829	0.0858	0.0932	0.00
ISd	PI-II 21.46 deg AVERAGED		21.5	0.2774 0.2109			0.0890				0.0777										0.7185				0.0784	0.0888		0.0732	0.0772	0.0979	0.0948	0.0869	0.0868	0.0958	0 0941	0.0916
	бәр		theta: 2		0.0	0.	o.	o c	<i>-</i>	Ö	o o	0	0	Ö	0.	0	0.	0			r/d: 0.5935		0.0838+	08511 0 0917	- } }		0.0978		. 1059,	0.0980		0.0845	0.0978	0.0932	0.0989	0 1104
WIR 1421 RUN 14	РН 5.00		_	s 0.	1 .5	2.0	2.5		. 4	. 	4.5	4.8	5.0	5.5		6.5		7.5					3.875 0.	4 375 0	.625	•		5.375	.625 0		•	•	6.625		7, 125	7.375

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deg GED DAT GED DAT 1. 1138 0. 0699 0. 0641 0. 0642 0. 0641 0. 0641 0. 0641 0. 0641 0. 0641 0. 0660 0. 0660	deg PIII theta: 21.6 0.2370 0.1789 0.1789 0.0598 0.0511
BODY PRE BODY PRE 51.6 51.6 0.1017 0.0733 0.0689 0.0689 0.0689 0.0689 0.0689 0.0689 0.0689 0.0689 0.0689 0.0689 0.0689 0.0689	theta: 21.6 AVERAGED DATA theta: 21.6 AVERAGED DATA v. 0.2370 v. 0.2370 v. 0.447 v. 0.2370 v. 0.698 v. 0.0698 v. 0.0511 v. 0.0512 v. 0.0612 v. 0.0512 v. 0.0635 v. 0.0637 v. 0.0851 v. 0.0851 v. 0.0852 v. 0.0851 v. 0.0851 v. 0.0852 v. 0.0853 v. 0.0854 v. 0.0854 v. 0.0854 v. 0.0856 v. 0.0857 v. 0.0857 v. 0.0853
	deg PIII 21.57 c theta: 21.6 10.2370 0.1789 0.1447 0.0902 0.0698 0.0511 0.0559 0.0561 0.0561 0.0561 0.0561 0.0561 0.0561 0.0561 0.0561 0.0561 0.0561 0.0561 0.0561 0.0561 0.0561 0.0561 0.0561 0.0561 0.0561 0.06612 0.0681 0.0682 0.0681 0.0683 0.0881 0.0881 0.0881 0.0881 0.0881 0.0883 0.0883 0.0883
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WTR1421 RUN 18	igF MACI!		119.4		0.1332.0.2026	0.1070,0.1713	0.0885		0.0/19	0.0607	0.0893	0.0840	0.0646	0.0689	0.0705	0.0765	0.0769		0.1106		1.3435							•					0730))	0.0728
	10 72.30 degF 1.0000		104.4		0.1373		0.0942		0.0/65	0.0713	0.0620	0.0630	0.0852	0.0712	0.0825	0.0758	0.1106	0.0824	0.1007		1.2185											8920	0.0602.0.0730	0.0606	0.0669
TEST)) PSI#2(TC/1)	psta FACTOR: 1.0	(PSI)	89.4		0. 1312		0.0923		0.0878	0.0/3/	0.0848	0.0807	0.0594	0.0751	0.0803	0.0878	0.1177	0.1120		(PSI)	1.0935									0.0616	0.0513	0.0332	0.0551	0.0623	0 0663
T2 PRESSURE TEST V PSI#1(PR/10) P	PO 14.69 PS SCALE FA	PRESSURES	74.4		0.1292		0.0912		0.0842	0.0811	0.0713	0.0611	0.0605	0.0907	0.0762	0.0824	0. 1069	0.0667	0.1050	WING PRESSURES	0.9685							0	0.0560	0 0482	0.0591	0.0331	0.0586	0.0577	7040
TUNNEL PSI CONFIGURATION		BODY	59.4		0.1354		0.0881			8//0.0								0.0845 (0	S	0.8435						0.0652	0.0498	0.0366	0.0521	0.0536	0.0030	0.0721	0.0806	0 0769
PSI C	44.35 deg AVERAGED DATA			v -													4	93 0.0			0.7185				0.0608	0.0675		0.0572	0.0080	0.0866	0.0259	0.0758	0.0833	0.0814	0.0807
	IHd 6		theta: 44.4	0.2485	0.1542	0.1001	0.0817	0.087	0.0671	0.008	0.0756	0.0782	0.0778	0.0784	0.0706	0.0640	8	0.089			: 0.5935		67 +	731 0.0743			0.0891		38,0.0/64	0.0800	0.0753	0.00	0.0814	0.0867	0.0913
WTR 142 1 RUN 18	5.00 deg		70	o. e	. 	2.0	2.5	9.0 1.0	G 7	4 4 5 6	. 4 . R		5.0	5.5	6.0	6.5	7.0	7.5	8.0		z/d r/d:	.625	3.875 0.0667	4.375 0.06731	625	4.875	•	5.375	0 620.	5.875 6.124				7.125	7
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WIR1421 RUN 19	MACH 4.0		119.3		0.1025,0.2367	0.0856,0.1977	0.0723	0.0532	0.0485	0.0527	0.0431	0.0630	0.0449	0.0513	0.0534	0.0585	0.0636	0. 1062		1,3435										16.1	
•	10 72.39 degF 1.0000		104.3		0.1084 0		0.0803	0 0670		-							0.0977			1.2185									0.0477	0.0502.0.0661	
E TEST 10) PSI#2(TC/1)	psta T	(PSI)	89.3		0.1020		0.0789	20805	0.0667	0.0793	0.0741	0.0696	0.0491	0.0667	0.0751	0.0820	0.1066		(PSI)	1.0935	•	,				•	0 0469	0.0443	0.0453	0 0467	
EL 12 PRESSURE TEST ION PSI#1(PR/10) P	PO 14.70 SCALE	BODY PRESSURES	74.3		6660.0		0.0761	0.0718	0.0651	0.0537	0.0650	0.0418	0.0425	0.0751	0.0646	0.0731	0.0939	0.0901	WING PRESSURES	5 0.9685			٠		7	9 0.0398	3 5 0.0355				
TUNNEL PSI CONFIGURATION	44.34 deg Averaged data	_	59.3		0.1031		0.0712	0.0636	0.0625	0.0640	0.0660	0.0632	0.0451	0.0592	0.0698	0.0722	0.0604			0.7185 0.8435			0.0426	0.0470			0.0572 0.0373				
	PHI 4.			0.1919	0.1199	0.0745	0.0612	0.0738	0.0535	0.0620	0.0592	0.0622	0.0630	0.0660	0.0600	0.0553	0.0570			0.5935 0.		0.0533				9750	0.00	0.0611 0.0	_		
WTR (42) RUN 19	10.01 deg		z/d theta	n 0.		•	2.5		0.4	•	4.5	4.8				٠	0.7	8.0		z/d r/d:	.875 U.U498† 125	375 0.05441)	875		0.0776	125	375	.625	875	,

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WIR 1421	2	MACH 4.0					4 (
							0.1749,0.1714	0.1106	ı	0.0909	0.0796	0.08/8	0.0835	0.0884	0.0940	0.0931	0.0955	0.0945	0.1144	0.1072		26.40	000			-									1664	*00-	0.1253
		1.0000		126.7		5	7.101.0	0.1161		0.0925		0.0881	0.0842	0.1048	0.0904	0.0986	0.0921	0.1238	0.0979	0.0995		1,2185												0 1001	0 1174 0 1654	0.1289	0. 1371
E TEST	/10) PSI#2(TC/1)	JR :	(PSI)	111.7		0 1754		0.1141	6000	0.000	0.1021	0.1007	.0.0917	0.0784	0.0917	0.0968	0.1029		0.1246		(PS1)	1.0935										0.0990	0.0898	0.0970	0.1037	0.1156	0.1250
, –	PS1// 1(PR)	SCALE	BODY PRESSURES	96.7		0.1743	1	0.1128	. 8260 0		0.0864	0.1012	0.0799	0.0798	0.1061	0.0937	0.0995	0.1191	0.0823	0.1193	WING PRESSURES (PSI)	0.9685								0.0952		0.0899	0.0951	0.0921	0.1014	0.1029	0, 1019
TUNNEL	deg contributers	AVERAGED DATA	ă	81.7		0.1772		0.1098	0.0883	0.0917	0.0950	0.1008	0.0988	0.0814	0.0903	0.0994	0.0999	0.0872	0880		3	0.8435						0 1039	0.0897	0.0972	0.0940	0.0992	0.0965	0.0954	0.0977	0.1033	0.0981
190	66.73	AVERA																				0.7185				0660 0	0.1085)))	0.0936	0.0939	0.1043	0.1004	0.0945	0.0947	0.1014	0. 1000	0.0976
	IHd			theta: 66.7	0.3085	0.1885		0.1018	0.0807	0.0839	0.0932	0.0939	0.0972	0.0975		0.0909	0.0842	•				0.5935		*	1088			0.1059		o.	0.1056			0. 1031	0.0990		0. 1066
W1R1421 RUN 21	-0.05 deg			5 1	9 O.	£.5	2.0 8.0		3.5	0.4	•	4. 4 U. 0				•				•		z/d r/d:	.020	3.875 0.1031	4.375 0.10471	,			.375		5.875		•	•	•	٠	5
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	WTR 1421 RUN 22			TUNNEL PSI CONFIGURATION	TUNNEL GURATIO	T2 PRESSURE TEST N PSI#1(PR/10) P	E TEST 10) PSI#2(TC/1)	(1/3)	WIR	WTR 1421 RUN 22
Ξ	4.96	deg	Іна	66.74 deg Averaged data	٨	PO 14.69 SCALE	psia FACTOR:	10 72.83 degF 1.0000	JF MACH	4.0
					. 80	BODY PRESSURES	(PSI)			
	p/z	theta: (66.7	81.7		96.7	111.7	126.7	141.7	
	0 -	00	. 2317						•	
	- 5	o	0.1455	0.1314		0. 1282	0 1321	1411	0 1417 0 1775	
	2.0	0	.0959	•					0 1118 0 1510	
	2.5	0	0.0798	0.0878		0.0904	0.0914	0.0940	6060.0	
	<u>ي</u> د	0	0.0879							
	ر د . ه	0	.0685	0.0771	_	0.0834 .	0.0857	0.0740	0.0685	
	0.4	0	0.0698	0.0787		0.0807	0.0738	0.0701		
	4.3	0	.0788	0.0813			0.0850	0.0597	0.0661	
	4.5	0	0.0763	0.0829	•	0.0841 .	0.0803	0.0668	0.0605	
	4.8	o	.0790	0.0813	•	0.0619	0.0759	0.0583		
	5.0	Ö	0.0787	0.0663	•	0.0615	0.0557	0.0786	0.0618	
	5.5	0	.0791	0.0736	•	0.0919	0.0708	0.0640	0.0568	
	0.9	0	0.0720	0.0827		0.0794	0.0771	0.0715	0.0641	
	6	0	0.0637	0.0829	•	0.0855	0.0859	0.0649	0.0661	
	7.0	Ö	0.0631	0.0697	Ĭ	0.1033	0.1135	0.0976	0.0651	
	7.5	0	.0819	0.0799	•	0.0611	0.1011	0.0738	0.0935	
	8.0					0.1075		0.1170	0. 1398	
					3	WING PRESSURES	(PSI)	•		
	7	0 .77		1						
	2 2	. va. 0.333		0.7183	0.8435	0.9685	1.0935	1.2185	1.3435	
	0	.0578+								
	0	.04431 0.0635								
	4.625			0.0523		•				
	4.875			0.0576						
	5.125	0.0835			0.0551					
		0.0764		0.0419	0.0418					
		.071		0.0468	0.0485	0.0473				
	5.875	0.0795		0.0666	0.0445					
	6. 125			0.0685	0.0543	0:0430	0.0544			
	6.375	0.0703		0.0673	0.0556	0.0542	0.0529			
	6.625	0.0787		9690.0	0.0561	0.0524	0 0582	0.0599		
	6.875	0.0730		0.0741	0.0588	0.0621	0.0612	0.0614	0 1014	
	7.125	0.0776		0.0728	0.0702	0.0655	0.0688	0.0629	7	
	7.375	0.0855		0.0753	0.0746	0.0701	0.0727		0.0774	

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WTR1421 RUN 23	4.0					-																										
WTR	JF MACH		141.8	0.1089,0.1797	0.0684	0.0463	0.0181	0.0226	0.0418	0.0249	0.0346	0.0331	0.042	0.0491	0.1032		1.3435												i i	0.0655	1	0.0585
•	70 73.11 degF.		126.8	0.1077	0.0757	0.0589	0.0570	0.0534	0.0435	0.0623	0.0480	0.0318	0.0383	0.0/43	0.1096		1.2185											•	0.0449	0.0470,0.0655	0.0419	0.0539
TEST) PSI#2("C/1)		(PSI)	111.8	0.1006	0.0763	0.0709	0.0568	0.0626	0.0571	0.0354	0.0486	0.0521	0.0575	0.0834	0.0833	(1Sd)	1.0935									,	0.0431	0.0421	0.0431	0.0447	0.0517	0.0546
12 PRESSURE TEST PSI#1(PR/10) P	14:70 SCALE	BOOY PRESSURES (96.8	0.1004	0.0764	0.0741	0.0700			0.0516	0.0798	0.0644	0.0684	0.0864	0.1141	WING PRESSURES (PSI)	0.9685		•				•		0.0329		0.0334	0.0441	0.0429	0.0469	0.0485	0.0493
TUNNEL CONFIGURATION	J DATA	800)														X	0.8435						0.0387	0.0307	0.0374	0.0347	0.0406	0.0452	0.0458	0.0437	0.0523	0.0513
PSI CO	66.83 deg Averaged data		81.8	0. 1033	0.0732	0.0663		0.0678							0.0635		0.7185				0360	0.0330		0.0287	0.0320	0.0429	0.0397	0.0426	0.0481	0.0555	0.0655	0.0618
	PHI		theta: 66.8	0.1343	0.0734	0.0765	0.0528	0.0598	0.0569	0.0559	0.0561	0.0489	0.0434	.047	0.0669		0.5935		2+		191 0.0441		0 0461	0.0437	54,0.0432			0.0486	0.0757	0.0655	0.0634	0.0711
WTR1421 RUN 23	9.97 deg				2.0			4 4 6 4							ال ال		z/d r/d:	625	3.875 0.0402	. 125	.375 0.04	4.625 4.825	4.675 F 105	5.375	625 0.04	875	6.125	6.375		•	12	37

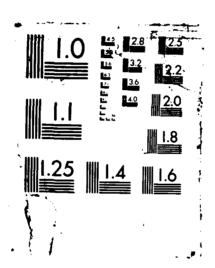
WHITE OAK LABORATORY

1421	4.0																																
WTR142 RUN 2	degF MACH		141.8	0.0790,0.1848	0.0530	0.0312	0.0174	0.0244	0.0191	0.0168	0.0233	0.0235	0.0260	0.0232		0.0369		1.3435													0.0435		0.0451
Ç	10 73.25 de .0000		126.8	0.0816	0.0633	0.0458	0.0308	0.0166	0.0211	0.0301	0.0204	0.0276	0.0215	0.0496	0.0241	0.0409		1.2185												0.0389	0.0392,0.0435	0.0384	0.0425
TEST 0) PSI#2(TC/1)	psta FACTOR: 1.0	(PSI)	111.8	0.0790	0.0624	0.0549	0.0415	0.0483	0.0338	0.0128	0.0273	0.0305	0.0351	0.0585	0.0535		(PSI)	1.0935	•									0.0378	0.0371	0.0372	0.0377	0.0419	0.0425
12 PRESSURE TEST V PSI#1(PR/10) P	PO 14.70 PS SCALE F	PRESSURES	96.8	6080.0	O.0644	0.0654	0.0546	0.0463	0.0363	0.0332	0.0616	0.0494	0.0521	0.0704	0.0306	0.0551	WING PRESSURES	0.9685								0.0340		.0.0273	0.0380	0.0372	0.0394	0.0385	0.0366
TUNNEL PSI CONFIGURATION		800Y	81.8	0.0835 (0.0584 (0.0531							0.0462 (J	>	0.8435						0.0410	0.0295	0.0324	0.0287	0.0339	0.0399	0.0397	0.0362	0.0418	0.0379
PSI	66.75 deg Averaged data												Ö	o.	Ö			0.7185				0 0397	0.0405		0.0253	0.0277	0.0372	0.0325	0.0359	0.0412	0.0418	0.0433	0.0410
	IHd			0.0929	0.0493	0.0020	0.0374	0.0445	0.0407	0.0447	0.0465	0.0433	0.0383	0.0371	0.0491			0.5935				0.0479		0.0350	0.0311	,0.0294	0.0381		0.0389	0.0461	0.0400		0.0496
1421	4.96 deg		z/d theta	- -	22.0	3.5	4.0	 	. 4 . 8	5.0			6.5	7.0		8.0		r/d:		1.875 0.0431+	(625	75			0.0362					.0	io i	
WTR 14 RUN	ALPH																	•	(7)	3.8	•	4.4	. 4	5.1	5.3	5.6	8.5	. 9	6.9	9.9	•	7. 12	•

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WTR1421 RUN 25	MACH		164.5	0.1751.0.1710	0.1359,0.1454 0.1108	0.000	0.0803	0.0879	0.0838	0.1031	0.0874	0.0328	0.0951	0.0953	0, 1199	0.1181		1.3435												አስፍ		0.1996
(1)	T0 73.55 degf 1.0000		149.5	0.1812	0.1157	8160 0	0.0885	0.0805	0.0879	0.0831	0.0901	0860.0	0.0918	0.1229	0.0994	0.1053		1.2185,											0.1436		0.1859	0.1922
12 PRESSURE 1EST PSI#1(PR/10) PSI#2(TC/1)	psta FACTOR:	ES (PSI)	134.5	. 0.1743	0.1137	0.0986	0.0901	0.1014	0.0988	9220	0.0913	0.0964	0.1023		0.1236		RES (PSI)	85 1.0935								<u>.</u>	0.0990					529. 0.1884
	PO 14.68 SCALE	BODY PRESSURES	119.5	0.1737	0.1122	0.0954	0.0942	0.0864	0.0997	0.0787	0.1054	0.0935	0.0990	0.1175	0.0829	0.1187	WING PRESSURES	435 0.9685				-	1030	20 E	964 0.0948		987 0.0898	0974 0.0973	1003 0.1007		Ö	1161 0.15
TUNNEL PSI CONFIGURATION	89.46 deg AVERAGED DATA		104.5	0.1754	0.1093	0.0882	0.0917	0.0946	0.0985	0.0802	0.0902	0.0986	0.0993	0.0875	0.0981			0.7185 0.8435				0.0994	C	.0934 0.0898			.0997 0.0987	Ö	Ö	o.	0	1099 0.1
	PHI		theta: 89.5 0.3055	0.2330 0.1866	0.1029	0.0808	0.0839	0.0929	0.0955	0.0962	0.0962	0.0904	0.0842	•	0. 1022			0.5935 0	*		0.10481 0.1091	0 0	0. 1057	0.0981	,0.0953	0.1044 0	0	0.0946 0	0.1041			0 1227 0
WTR1421 RUN 25	эн -0.04 deg		z/d ti 0.5	o) W C	9. E	•	4. 4 D. R.			5.5	0.9		0.7	r. 6	O. 8		z/d r/d; 3 625	3.875 0.1033	. 125	375	4,625						4 175	1.75	4 14 15		-

AD-A190 972 SURFACE PRESSURE MEASUREMENTS ON A HIGHLY SMEPT DELTA 3/3 MINGED MIND TUNNELL. (U) MAYAL SURFACE MEAPONS CENTER SILVER SPRING ND A S COLLIER ET AL. AUG 86 F/G 1/1 NL



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WTR1421 RUN 27	MACH		164.5	0.1348.0.1314	0.0805	0.0540	0.0412	0.0317	0.0470	0.0287	0.0361	0.0348	0.0411	0.0483	0.1319		1.3435													0461		0.0711
	.0000 75.35 degf		149.5	0.1198	0.0748	0.0553	0.0536	0.0508	0.0428	0.0605	0.0477	0.0538	0.0460	0.0/30	0.1408		1.2185												0.0453	0.0498,0.0461	0.0579	0.0102
TEST) PSI#2(TC/1)	psta FACTOR: 1.0	(PSI)	134.5	0. 1034	0.0720	0.0671	0.0563	0.0614	0.0572	0.0376	0.0501	0.0537	0.0604	0.0841	7	(PSI)	1.0935		•								0.0413	0.0436	0.0449	0.0503	0.0607	0.0102
T2 PRESSURE TEST PSI#1(PR/10) P	14.66 SCALE	BODY PRESSURES (9. 8	0.0986	0.0732	•	•	0.0606						0.0/24		WING PRESSURES	0.9685	•	•					!	0.0349	1	0.0351	0.0436	0.0465	0.0519	0.0589	0.0676
TUNNEL PSI CONFIGURATION	PO	BODY	5 119													3	0.8435						0.0366	0.0314	0.0363	0.0358	0.0410	0.0445	0.0473	0.0492	0.0596	0.0675
PSI CO	89.50 deg Averaged dala		104.5	0.1022	0.0717	0.0621	0.0615	0.0613	0.0574	0.0397	0.0534	0.0678	0.0653	0.0522			0.7185				0.0358	0.0351		0.0302	0.0332	0.0408	0.0381	0.0409	0.0480	0.0524	0.0585	0.0667
	PHI		theta: 89.5 0.1671	0.1161	0.0650	0.0605	0.0640	0.0716	0.0755	0.0773	0.0786	0.0673	0.0564	0.0229	•		0.5935			0.04041 0.0415			0.0384	0.0358	0.0364	0.0447		0.0480	0.0527	0.0520	0.0598	0.0710
WTR1421 RUN 27	9.99 deg			r	, 6, 6 , 6, 6		0.4	. 4. . r.	8.4	5.0	ស	0.9	•) , v	0.8		:p/u r/q:	3.625	125	375		4.875	•		.625 0.0372	5.875		6.375	6.625	6.875	•	7.375
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14. 94 deg PH 19. 66 deg PD 14.66 pale PL 1000 PRESCRIEE PLODO PRESCRIEE PLODO PRESCRIEE PLODO PLO		WTR 1421 RUN 28			PSI CONF	TUNNEL PSI CONFIGURATION	T2 PRESSURE TEST PSI#1(PR/10) P	E TEST 10) PSI#2(TC/1)	10/1)		A 2	WTR 1421 RUN 28	
2/d theta: 89.7 104.7 119.7 134.7 149.7 149.7 10.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.	¥		De p	PHI	89.66 deg Averaged dal		14.66 SCALE	osta FACTOR:		4 degF	MAC	I	4 .0
2/d theta: 89.7 104.7 119.7 134.7 149.7 1.5 0.1317 0.01317 0.01317 0.01317 0.01317 0.01317 0.0131 2.5 0.0624 0.0625 0.0763 0.0619 0.0619 0.0911 2.5 0.0647 0.0598 0.0599 0.0679 0.0670 0.0674 3.0 0.0647 0.0659 0.0679 0.0679 0.0679 0.0674 4.5 0.0662 0.0671 0.0679 0.0679 0.0679 0.0678 4.5 0.0672 0.0679 0.0679 0.0679 0.0678 0.0678 4.5 0.0673 0.0673 0.0679 0.0679 0.0678 0.0678 5.0 0.0679 0.0679 0.0679 0.0679 0.0678 0.0671 0.0678 6.0 0.0679 0.0679 0.0674 0.0674 0.0671 0.0672 0.0672 7.5 0.0679 0.0679 0.0679 0.0679						800		(PSI					
1.5 0.1076 1.5 0.1076 1.5 0.1077 1.5 0.0971 1.5 0.0971 1.5 0.0971 1.5 0.0971 1.5 0.0971 1.5 0.0971 1.5 0.0971 1.5 0.0971 1.5 0.0971 1.5 0.0972 1.5 0.0972 1.5 0.0973		p/z		89.7	104.7	-	19.7	134.7	149.7		164.7		
1.0 0.076 0.0825 0.0763 0.0738 0.0911 0.0911 0.0825 0.0971 0.0825 0.0738 0.0911 0.0911 0.0824 0.0825 0.0738 0.0911 0.0824 0.0824 0.0825 0.0824 0.0825 0.0825 0.0824 0.0825 0.0825 0.0824 0.0825		0.5	•	0.1317									
2.5 0.0674 0.0829 0.0074 0.0624 0.0619 0.0604 2.5 0.0624 0.0598 0.0624 0.0619 0.0604 3.0 0.0626 0.0570 0.0599 0.0659 0.0659 0.0567 4.1 0.0626 0.0670 0.0599 0.0659 0.0659 0.0658 4.2 0.0626 0.0670 0.0639 0.0649 0.0648 4.3 0.0692 0.0611 0.0639 0.0649 0.0648 4.3 0.0692 0.0611 0.0639 0.0649 0.0648 4.3 0.0670 0.0679 0.0639 0.0639 0.0649 0.0648 4.3 0.0670 0.0678 0.0639 0.0639 0.0649 5. 0 0.0670 0.0679 0.0639 0.0649 0.0658 6. 0 0.0670 0.0529 0.0674 0.0628 0.0639 7. 0 0.0471 0.0628 0.0679 0.0639 7. 0 0.0471 0.0628 0.0679 0.0639 8. 0 0.0429 0.0529 0.0641 0.0648 8. 0 0.0428 0.0446 8. 0 0.0438 0.0446 8. 0 0.0438 0.0446 8. 0 0.0438 0.0446 8. 0 0.0439 0.0441 0.0446 8. 0 0.0439 0.0441 0.0446 8. 0 0.0439 0.0441 0.0446 8. 0 0.0439 0.0441 0.0446 8. 0 0.0439 0.0441 0.0446 8. 0 0.0439 0.0441 0.0446 8. 0 0.0451 0.0468 0.0441 0.0445 8. 0 0.0451 0.0468 0.0441 0.0445 8. 0 0.0451 0.0469 0.0441 0.0445 8. 0 0.0451 0.0469 0.0441 0.0445 8. 0 0.0451 0.0469 0.0441 0.0445 8. 0 0.0451 0.0469 0.0441 0.0445 8. 0 0.0451 0.0469 0.0441 0.0441 0.06528 8. 0 0.0451 0.0469 0.0441 0.0441 0.06528 8. 0 0.0451 0.0469 0.0441 0.0441 0.06528		0.4		0.1076		(
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WTR1421 RUN 29	H 4.0																				•													
3 &	g₹ MACH		187.5		0.1757.0.1696	0.1362,0.1435	0.1117	6000	0.0809	0.0879	0.0841	0.1012	0.0875	0.0944	0.0926	0.0944	0.0949	0.1205			1.3435												.0960	
2	10 76.06 deg₹ 1.0000		172.5		0.1810		0.1159	81.00	0.0881	0.0808	0.0880	0.0832	0.1003	0.0903	0.0966	0.0919	0.1185	0.0997 0.1310			1.2185											0.1346	0.1934,0.0960	0.2276
TEST 0) PSI#2(TC/1)	psta 1.C	(PSI)	157.5		0.1748		0.1138	0860 0	0.0896	0.0999	0.0971	0.0953	0.0792	0.0911	0.0956	o. 1003		0.1200	(PSI)	٠	1.0935									0.0958	0.0929	0.1110	0.1409	0. 1901
12 PRESSURE 1 PSI#1(PR/10)	PO 14.65 PS SCALE FA	PRESSURES	142.5		0.1732		0.1117	8780	0.0932	0.0864	0.0980	0.0802	0.0794	0.1029	0.0928	0.0977	0.1131	0.0852 0.1193	WING PRESSURES	•	0.9685				•	•		0.0931		0.0909	0.0942	0.0991	0.1139	0.1347
IUNNEL. PSI CONFIGURATION	<	BODY			0.1747 0		0. 1086 0	0 0877				•						0 6760.0	13		0.8435					•	0.1014	0.0947	0.0936	0.0975	0.0952	0.0984	0.1058	0.1144
PSI 0	112.48 deg Averaged dat		127.5	~ -																	0.7185				0.0993	0.1047	0000	0.0932			0.0935	9960.0		0.1093
	DH1		theta: 112.5	0.3032	0.1847	0.125	0.1025	180.0	0.084	0.092	0.091	0.094	0.095	0.0951	0.0903	0.085	0.0851				1: 0.5935	100		0.10241 0.1052			0. 1032 0. 0958				0.0938	0.0993		0.1106
WIR 1421 RUN 29	-0.02 deg		p/z	s 0	. .	2.0	0 . 0 .	. u	0.4	₽ .0		4.8	5.0	ម ម	0. 0.	10 to) 	6.0 0.8	•		2/d r/d:	3 875 0 1009	. 125	375	4.625	4.875	5.125 5.375	5.625 0.0969	875	6. 125			6.875	7.125

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30	4.0																																				
WTR1421 RUN 30	gf MACH		187.3		0.1796,0.1364	•	0.1115	0 0163	•	0.0632	0.0692	0.0640	0.0795	0.0653	0.0704	9690.0	0.0744	0.0828	0.1402	0.2255		1.3435		•											. 0554		0.1756
(1)	10 76.45 degf 1.0000		172.3		0.1693		0.1062	0 0	0.0/38	0.000	0.0623	0.0681	0.0618	0.0786	0.0677	0.0747	0.0707	0.1033	0.1273	0.2520		1.2185														ö	0.1409
RE TEST /10) PSI#2(TC/1)	psia FACTOR:	S (PSI)	157.3		0.1505		0.0973	1000	0.0825	0.0722	0.0816	0.0783	0.0751	0.0588	0.0701	0.0743	0.0805	0.1042	0.1223		ES (PSI)	5 1.0935								2				Ö	Ö		0. 1290
WEL T2 PRESSURE TEST FION PSI#1(PR/10) P	PO 14.65 SCALE	BODY PRESSURES	142.3		0, 1391		0.0913		0.0802	0.0772	0.0698	0.0807	0.0622	0.0607	0.0840	0.0728	0.0777	0.0952	0.0695	0.1553	WING PRESSURES	35 0.9685			•		-	88		19 0.0502				77 0.0707		0.1080	1217 0.1222
TUNNEL PSI CONFIGURATION	112.33 deg Averaged data		127.3		0.1350		0.0864		0.0749	0.0769	0.0784	0.0806	0.0787	0.0634	0.0715	0.0782	0.0783	0.0698	0.0819			0.7185 0.8435				0 0503	0.0633	0.0588	0.0495 0.0475		0.0573 0.0511		0.0598 0.0630	0.0676 0.0677	0.0851 0.0810	0.1033 0.1029	. 1270
	Did 6ep		theta: 112.3	0.2270	0.1420	0.0958	0.0796	0.0863	0.0694	0.0/0/	0.0778	0.0162	0.0787	0.0787	0.0719	0.0720	0.0661	0.0676	0.0858			r/d: 0.5935		0.0643+		0.06181 0.0639		0.0703			0.0755		0.0729				
WTR 1421 RUN 30	PH 4.98 d		p/z	o -	. 	2.0	2.5	O 1	8. G	0.4	4. G	4 .5	4 .8	5.0	5.5	0.9	6.5	7.0	7.5	8.0		/J p/z	ın		125	4.3/3 O.O	4 875	5, 125	5.375	.625	5.875	6.125	6.375	•	6.875	7.125	7.375

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WTR1421 RUN 31	•																															•	
WIR	gF MACH		187.4	0.1801,0.1035	0. 1097	0.0723	0.0567	0.0604	0.0689	0.0528	0.0538	0.0499	0.0529	0.0628	0.1117	0.1/49		1.3435													0.0417	1201 0	•
	0 76.73 degf 000		172.4	0.1528	0.0924	0.0601	0.0543	0.0445	0.0452	0.0621	0.0534	0.0607	0.0600	0.0922	•	0.1848		1.2185											1	0.0581	0.0696,0.0417	0.0783	
TEST) PSI#2(TC/1)	ps te 10 FACTOR: 1.0000	(PSI)	157.4	0.1229	0.0760	0.0617	0.0544	0.0631	0.0570	0.0416	0.0532	0.0574	0.0643	•	0.1299		(PSI)	1.0935										0.0489	0.0501	0.0544	0.0616	0.0703	70107
T2 PRESSURE TEST PSI#1(PR/10) P	PO 14.65 psta SCALE FACTO	BODY PRESSURES (I	142.4	0. 1062	0.0688	0.0637	0.0607	•		0.0431	0.0654	0.0550	0.0612	0.0792	0.0613	0.1477	WING PRESSURES	0.9685								0.0419		0.0429	0.0493	0.0527	0.0600	0.0655	0.0733
TUNNEL CONFIGURATION		B0D	-													•	3	0.8435						0.000	0.0361	0.0428	0.0422	0.0463	0.0491	0.0532	0.0593	0.0683	0.0762
PS1 CONF	112.42 deg Averaged data		127.4	0.1020	0.0679	0.0598	0.0594	0.0606	0.0610	0.0434	0.0508	0.0574	0.0594	0.0546	0.0678			0.7185				•	0.0443	0.0436	0.0368	0.0405	0.0480	0.0447	0.0468	0.0548	0.0626	0.0681	0.0786
	Н		theta: 112.4 0.1697	0.1317	0.0759	0.0737	0.0528	0.0584	0.0544	0.0554	0.0542	0.0490	•		0.0733			0.5935		+		1 0.0497		9	0.0438		•		0.0518		6090.0	0.0708	0.0952
WTR 1421 RUN 31	9.98 deg		2/d the			0,6 0,6		•	•	•			•	7.0				z/d r/d:	. 625	875 0.0476		.375 0.0469		.875			875					. 12	.375
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	WTR 142 1 RUN 32			PSI CONF1	TUNNEL PSI CONFIGURATION	12 PRESSURE TEST PSI#1(PR/10) P	TEST 0) PSI#2(TC/1)	rc/1)		WTR 1421 RUN 32	
Ŧ	14.94	geb	IHd	112.59 deg Averaged data	P0	14.65 SCALE	psts FACTOR:	10 77.03 degF 1.0000		MACH	4.0
					BODY	PRESSURES	(PSI)				
	b/z	theta:	112.6	127.6	4	142.6	157.6	172.6	187.6		
			0.0903	0.0767	Ö	0.0761	0.0992	0.1400	0.1827,0.0741	741	
			0.0510	0.0534	0	0.0514	0.0603	0.0842	0.1125	780	
	ມ ຜ ວິທ		0.0413			0513	0.0483	0.0529	0.0758		
	4 4 0 6		0.0376	0.0462	o c	0.0503	0.0435	0.0477	0.0609		
	•		0.0420	0.0486		0521	0.0496	0.0473	0.0520		
	•		0.0457	0.0479	o o	0.0350	0.0468	0.0432	0.0607		
			0.0455	0.0416	o o	0.0548	0.0429	0.0384	0.0335		
			0.0436	0.0502	Ö	.0456	0.0473	0.0535	0.0271		
	6.5		0.0414	0.0531	Ö	0.0523	0.0537	0.0481	0.0280		
	۰ ۱ (۵		0.0414	0.0450	o (0.0672 .	0.0746	0.0746	0.0297		
	0. 8 0. 8		0.0321	0.0489	50	0.0640	0.0692	0.0424	0.0441		
					*13	WING PRESSURES	(PSI)				
	z/d .625	r/d: 0.5935	ž.	0.7185	0.8435	0.9685	1.0935	35 1.2185	1.3435		
	.875	0.0433+									
	4.125	04241 O 0454	74								
	.625		5	0.0392							
		0.0389	6		0.0364						
	•	0.0327	Li	0.0274	0.0297						
	.625	0.0275,0.0308	86	0.0287	0.0320	0.0294					
	•	0.0360	o O	0.0340	0.0297	0	700	g			
		4000	2	0.03	0.033		0.0346	D •			
	•	0.0394		0.0361	0.0399	0.0388	860.0	90 00 000 00		٠	
		0.0392	2	0.0421	0.0397	0.00	0.0338		0.0409 0.0408 0.0408		
	7. 125	0.044	! =	0.0439	0.0446	0.0422	0.0445				
	7.375	0.0479	6	0.0439	0.0429	0.0420	0.0458		0.0482		

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WTR1421 RUN 33	MACH 4.0				1702	1403										•									•								
	<u> </u>		210.3		0.1761,0.1702		0.1113	0.0896	0.0816	0.0878	0.0847	0.1012	0.0894	0.0921	. 6160.0	0.0934	0. 1081	0.0989		1.3435												0.0859	
	10 77.44 degF 1.0000		195.3		0.1811		0.1148	0.0910	0.0880	0.0817	0.0882	0.0852	0. 1001	0.0903	0.0360	0.1151	0.0966	0.1168		1.2185											0.0908	0.0965,0.0859	
TEST) PSI#2(TC/1)	0R:	(PSI)	180.3		0.1755	!	0.1133	0.0959	0.0895	0.0983	0.0975	0.0960.0	0.0818	0.0909	0.0948	0.1186	0.1164		(PSI)	1.0935									0.0940	0.0881	0.0911	0.0939	
12 PRESSURE PSI#1(PR/10	14.65 SCALE	PRESSURES	165.3	• .			-1114	0934	0927	0863	0984	.0828	.0818	. 1017	6960				WING PRESSURES	0.9685									0.0903	0.0921	0.0904	0.0950	
TUNNEL CONFIGURATION	PO ATA	ADD8					9	0.0											3	0.8435						0.1018	0.0900	0.0927	0.0967	0.0938	0.0930	0.0945	
PSI CON	135.26 deg Averaged data		150.3		0.1748	•	0. 1083	0.0874	0.0905	0.0927	0.0965	0.0960	0.0830	0.0899	0.0969	0.0877	0.0961			0.7185				0.0995	0.1056		0.0927	0.0988	0.0958	0.0922	0.0928	0.0972	
	H		: 135.3	0.2297			0.1034	0.0973	0.0845	0.0916		0.0950	0.0959	0.0346		0.0848	0.0997			0.5935			0.1054			0.1037	0.0956	2660		.0931	8960	0.0949	
	deg		theta:																	r/d: 0.5		0.1017+	0.10291.0			· ·	0.0	Ċ		0.0	0.0	0.0	
WIR1421 RUN 33	PH -0.03		2/d 5/5	. O	1.5	0.0	9 6 9 0		4.0	4.3	4.5	4.8	0 10 10	٠) (C	٠.	7.5			p/z	625	3.875 0	375	.625	4.875	5. 125	5 625 0	875	6.125	6.375	6.625	6.875	

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	WTR 1421 RUN 34			PSI CONF	TUNNEL T	T2 PRESSURE TEST PSI#1(PR/10) P	TEST 0) PSI#2(TC/1)	(1/3	WTR 142 RUN 3	421
H	4.95	deð	PHI	135.34 deg Averaged data	P0	14.64 p SCALE F	psta FACTOR:	T0 77.75 degF 1.0000	јғ масн	•••
					BODY	BODY PRESSURES	(PSI)			
	p/z	theta:	135.3	150.3	165.3		180.3	195.3	210.3	
	o -		0.2406							
	1.5		0.1462	0.1457	0.1	0.1553	0.1712	0.1932	0.2046,0.1273	
			0.0992					•	0.1570,0.1111	
	2.5		0.0826	0.0895	0.0	0.0982	0.1083	0.1196	0.1270	
	•		0.0828							
	•		0.0687	0.0735	0.0	. 0080.	0.0868	0.0860	0.0896	
	4.0		0.0697	0.0750	0.0	0.0770	0.0769	0.0810	0.0784	
	•		0.0761	0.0764	0.0	0.0699	0.0846	0.0725	0.0821	
			0.0758	0.0793	0.0	0.0803	0.0823	0.0779	0.0772	
			0.0785	0.0778	0.0	0.0639	0.0797	0.0731	0.0926	
	•		0.0786	0.0644	0.0	0.0624	0.0647	0.0872	0.0797	
	5.5		0.0768	0.0706	0.0	0.0828	0.0724	0.0748	0.0800	
	•		0.0711	0.0770	0.0	0.0717	0.0752	0.0803	0.0799	
	6.5		0.0653	0.0775	0.0	0.0761	0.0796	0.0745	0.0813	
	7.0		0.0680	0.0704	0.0	0.0924	0.0994	0.0986	0.0816	
	7.5		0.0848	0.0821	0.0	0.0745	0.1110	. 0600, 0	0. 1005	
	8.0				0.1	. 1923		0.2198	0.1715	
					MIN	WING PRESSURES	(PSI)			
	z/d r	r/d: 0.5935	35	0.7185	0.8435	0.9685	1.0935	1.2185	1,3435	
	25									
	.875	0.0800€				•				
	4.125					٠				
	375	0.07661 0.0799	667							
	4.625			0.0738						
	4.875			0.0777						
	5. 125	0.0866	99		0.0729					
	.375		25	0.0650	0.0618					
	Ö	0733,0.0826	26	0.0634	0.0653	0.0631				
		0.0892	92	0.0686	0.0630					
	•			0.0656	0.0656	0.0606	0.0652	~		
	6.375	0.0824	24	0.0624	0.0647	0.0646	0.0623	m		
	6.625	0.0865	65	0.0646	0.0664	0.0651	0.0676			
	•	0.0840	40	0.0705	0.0700	0.0721	0.0733		.0508	
	7.125	0.0882	82	0.0744	0.0771	0.0792	0.0887			
	•	0.10	643	0.0860	0.0865	9960.0	0.116		0.1590	

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142.1 35	4.0																														
WTR 1421 RUN 35	JF MACH		209.9	0.2373,0.0958	0.1812,0.0887 0.1471	0. 1007	0.0843	0.0867	0.0964	0.0838	0.0841	0.0811	0.0817	0.0796	0.1771		1.3435					•	•		•				04 15		0. 1098
÷	T0 77.99 degf 1.0000		194.9	0.2034	0.1240	0.0857	0.0786	0.0083	0.0671	0.0810	0.0723	0.0781	0.0729	0.0957	0.2367		1.2185			•								0.0585	0.0659,0.0415	0.0786	0.1035
TEST 0) PSI#2(TC/1)	psta FACTOR: 1.	(PSI)	179.9	0.1635	0.1000	0.0750	0.0638	0.0659	0.0619	0.0476	0.0564	0.0597	0.0654	0.0834	50.0	(PSI)	1.0935									0.0560	0.0534	0.0575	0.0632	0.0747	0.0943
12 PRESSURE TEST N PS1#1(PR/10) P	PO 14.64 p SCALE F	BODY PRESSÚRES	164.9	0. 1335	0.0808	0.0613	0.0572	0.0587	0.0428	0.0409	0.0617	0.0523	0.0587	0.0740	•	WING PRESSURES (PSI)	0.9685				•			0 0544		0.0525	0.0551	0.0562	0.0610	0.0649	0.0775
TUNNEL CONF 1 GURA T 1 ON	34.94 deg Averaged data	80	149.9	0.1156	0.0673	0.0582	0.0592	0.0603	0.0585	0.0451	0.0514	0.0583	0.0609	0.0535		3	0.8435						0.0640	0.0533	0.0533	0.0569	0.0560	0.0578	0.0606	0.0658	0.0712
PS1	-																0.7185					0.0680		0.0544		0.0548	0.0531	0.0570	0.0621		0.0716
	IHI E		theta: 134.9 0.1855	0. 1392 0. 1125	0.0629	0.0557	0.0547	0.0576	0.0590	0.0587	0.0566	0.0522	0.0492	0.03	3		0,5935	ģ	•	0.06641 0.0711			0.0680	0.0624	0.0693		0.0645	0.0692	0.0674	0.0734	0.0874
WIR 1421 RUN 35	9.96 deg		z/d t 0.5	0.00) in c	. e.	4 €		•	0.0	•	ۍ ښ پ	•) . C			z/d r/d:	3.875 0.0690+	. 125		4.625	•		5.625 0.0536	875		•		6.875	. 12	7.375
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WTR1421 RUN 36	4.0																													
≥ ũ	F MACH		210.3	0.2746,0.0740	0.1744	0.1182		0.1041			0.0923	0.0801	0.0750	0.0857	0.1131		1.3435											0448		
	10 78.35 degf.		195.3	0.2174	0.1337	0.0922	0.0834	0.0/41	0.0775	0.0917	0.0858	0.0905	0.1135		0.1043		1.2185										0.0509	0.0518,0.0448	0.0515	
TEST 0) PSI#2(TC/1)	psta T FACTOR: 1.0	(PSI)	180.3	0.1591	0.0968	0.0712	0.0606	0.06/3	0.0617	0.0511	0.0632	0.0806	0.1020	0.1021		(PSI)	1.0935								0.0539	0.0505	0.0510	0.0510	0 0531	
T2 PRESSURE TEST N PSI#1(PR/10) P	PO 14.72 P SCALE F	BODY PRESSURES	165.3	0.1153	0.0692	0.0527	0.0501	0.0545	0.0418	0.0418	0.0646	0.0697	0.0876	0.0657	0.0947	WING PRESSURES	0.9685					-	100	0.0534	0.0508	0.0516	0.0512	0.0519	0 0523	
TUNNEL CONFIGURATION	g Data	80	e.	0.0883	0.0503	0.0494	0.0525	0.0541 0.0558	0.0559	0.0453	0.0546	0.0694	0.0658	0.0745		3	0.8435					0.0627	0.0522	0.0541		0.0507	0.0508	0.0501	0.0531	
PSI C	135.31 deg Averaged data		150.3	0.0	0.0						0.0	0.0	0.0	0.0			0.7185			0.0645	0.0650		0.0514	0.0505	0.0502	0.0473	0.0500	0.0507	0.0511	
	PHI			0.0829	0.0506	0.0466	0.0476	0.0539	0.0554	0.0567	0.0586	0.0578	0.0623	0.0769			0.5935		0	0.0039		0.0644	0.0580	0.0586		0.0606	0.0649	0.0623	0.0652	
WTR1421 RUN 36	14.95 deg		z/d theta	c	, 6, 6 5 ru C		•	4. 4. ro		0. r				7.5	<u>ي</u> ص		z/d r/d:	3.875 0.0683+	. 125	4.375 U.U6421 4.625	4.875	. 125	.375	.625 0.0527,	5.875 6.125	6.375	.625	.875	. 125	
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WTR1421 RUN 37	gF MACII		232.4	0.1781,0.1705	0.1124	0.0896	0.0831	0.0861	0.1016	0.0914	0.0924	0.0922	0.0941	0.0938	0.1057	0.0836		1.3435				,								,	. 0866	000	0.0864
2	T0 78.80 degf 1.0000		217.4	0.1823	0.1148	0.0911	0.0830	1080	0.0376	0.1006	9060.0	0.0962	0.0916	0, 1137	0.0958	0. 1009		1.2185											0	0.0890	0.0894,0.0866	0.0886	0.0863
TEST 5) PS1#2(TC/1)	psta 1 FACTOR: 1.0	(PSI)	202.4	0.1777	0.1133	0.0952	0.0903	0.0982	0.0970	0.0852	0.0914	0.0953	0.0994	0.1163	0.1141		. (184)	1.0935										0.0931	0.0874	0.0897	0.0898	0.0914	0.0887
12 PRESSURE TEST N PSI#1(PR/10) P	PO 14.74 P	BODY PRESSURES	187.4	0.1763	0.1119	0.0933	0.0927	0.0874	0.0859	0.0844	0.1016	0.0931	0.0972	0.1094	0.0857	0.1377	WING PRESSURES (PSI)	0.9685								0.0924		0:060:0	0.0912	0.0898	0.0922	0.0905	0.0874
TUNNEL PSI CONFIGURATION	DAIA	08	4		. 1092	882	910	929	27.5 26.8	856	903	196	971	885	0.0963		•	0.8435						0.1009	0.0905	0.0940	0.0934	0.0966	0.0929	0.0925	0.0926	0.0937	0.0892
PS1 CC	157.42 deg Averaged data		172.4	0.1762	0.1	0.0882	0.0910	0.0929	0.0373	0.0856	0.0903	0.0967	0.0971	0.0885	0.0			0.7185				0660 0	0.1049		0.0930	0.0930	0.0984	0.0960	0.0917	0.0924	0.0959	0.0923	9060.0
	PHI		a: 157.4	0.1818	0.1277	0.0961	0.0859	0.0920	0.0932	0.0973	0.0947	0.0907	0.0867	0.0861	0.0995			0.5935				0.1051		0, 1031	0.0955	,0.0942	0,0993		0.0930	0.0960	0.0946	•	0.0990
42.1 37	-0.04 deg		/d theta		O. R.		: O	ن د	v.	e C	, LT	0	ß.	0		0.1		r/d:	ຼີວ	15 0.1009+		/5 0. 10271	រូប			0.0959	875	125				125	15
WTR 142 RUN 3	0,		70) - - (00	m m	4	4	4 4	. IU	വ	9	9	7	7	80		p/z	3.625	3.87	4.125	4.375	4.023		5.375	•		•	6.37		•	,	7.37

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	WTR 1421 RUN 38			PSI CONFI	TUNNEL CONFIGURATION	T2 PRESSURE TEST PSI#1(PR/10) P	: TEST (0) PSI#2(TC/1)				WTR1421 RUN 38	
Ŧ	4.94	бөр	IHd	157.81 deg Averaged data	•	PO 14.75 p SCALE F	psta FACTOR: 1	1.0000	79.03 degF		MACH	4.0
					800	BODY PRESSURES	(PSI)					
		theta:	157.8	172.8	. -	187.8	202.8	217.8		232.8		
			0. 1994 0. 1586 0. 1589	0.1651	0	0.1795	0. 1969	0.2198		0.2287,0.1261	261	
	, 2, c	- •	0.0894 0.0835	0.0997	0	0.1115	0.1235	0.1354		0. 1/50, 0. 1088 0. 1431	880	
	. e	•	0.0699	0.0774	0	0.0879	0.0979	0.0997	_	0.1039		
	4.0	-	0.0705	0.0778	0	0.0847	0.0893	0.0953		0.0948		
	4 4 G 1	- •	0.0762	0.0787	00	0.0778	0.0960	0.0876		0.0983		
	4 4 U 00	. •	0.077	0.0828	c	0.0895	0.0939	0.0921	-	0.0942		
	5.0	•	0.0802	0.0692	0	0.0723	0.0801	0. 1032		0.0987		
	5.5	-	0.0768	0.0723	0	0.0880	0.0836	0.0894		0.0958		
	6.0	_	0.0720	0.0776	0	0.0767	0.0852	0.0935		0.0947		
	6.5	-	0.0679	0.0775	0	0.0799	0.0881	0.0866		0.0952		
		-	•	0.0715	0	0.0920	•	0.1078		0.0925		
		-	0.0907	0.0901	0		0.1034	٠,		0. 1000		
	O. 80				0	. 2006		0.1139		0.0947		
					13	WING PRESSURES	(PSI)					
	z/d r	r/d: 0.5935		0.7185	0.8435	0.9685	1.0935	-	. 2185	1.3435		
	875	0. 1037+										
	. 125											
	.375 0	10201 0.1030										
	4.625 4.875			0.0965								
	•	0 1024			7 7 0 0							
		A760.0		0.0879	0.0839				•			
	.625 0	8760.0.6880.		•	0.0874	0.0840						
	5.875	0.1044		0.0927	0.0856							
						0.0819	0.0846	•				
		0.0975		0.0848	0.0848	0.0829	0.0788					
	•	0.0995			0.0838	0.0807	0.0810		0.0796			
	٠	0.0967			0.0832	0.0825	0.0806		0.0794,0.0635	635		
	7.125	0.0987				0.0807	0.0813		0.0783			
	•	660.0		0.0819	0.0793	0.0769	0.0784	9.0	0.0758	0.0760		

WHITE OAK LABORATORY

421 39	0.4		-																		•																	
WIR142 RUN 3	degf MACH		232.8		0.2930,0.0986	0.2253,0.0899	0.1853			-	_	0.1164	_	0.1200	-	0.1150	0.1150	0.1128	_			1.3435													.0.050		0.0798	
:	10 79.25 de .0000		217.8		0.2621		0.1622								0. 1010	0.1054	0.0988	0.1189	0.0985	0.1038		1,2185												0.0832	0.0832,0	0.0828	0.0809	
TEST 0) PSI#2(TC/1)	psta FACTOR: 1.0	(PSI)	202.8		0.2178		0.1349		0. 1021	0.0924	0.0982	0.0951	0.0923	0.070	0.0824	0.0840	0.0873	0. 1013	0.0967		(PSI)	1.0935										0.0893	0.0841	0.0850	0.0846	0.0848	0.0827	
T2 PRESSURE TEST IN PSI#1(PR/10) P	PO 14.75 p SCALE F	BODY PRESSURES	187.8		0.1799		0. 1092	;	0.0817	0.0763	0.0689	0.0767	0.0622	0.0589	0.0740	0.0624	0.0655	0.0761	0.0514	0.1162	WING PRESSURE'S	0.9685		•					-	0.0895		0.0885	0.0810	0.0853	0.0860	0.0848	0.0823	
TUNNEL PSI CONFIGURATION	57.84 deg Averaged data	80	172.8		0.1492		0.0864		0.0619	0.0599	0.0598	0.0599	0.0577	0.0454	0.0498	0.0568	0.0599	0.0546	0.0623		3	0.8435						0.1003	0.0901	0.0928	0.0897	0.0917	0.0862	0.0856	0.0856	0.0852	0.0808	
PSI	157.84 deg Averaged			۰.۵																		0.7185				0.1034	0.1051		0.0921	0.0898	0.0935	0.0895	0.0841	0.0829	0.0858	0.0809	0.0784	
	1Hd		theta: 157.8 0.2250	0. 1666	0. 1312	0.0874	0.0697	0.0641	0.0530	0.0534	0.058	0.0565	0.0582	0.0582	0.0569	0.0544	0.0524	0.0542				0.5935	+		31 0.1092			0.1241		o.	0.1239		_	-			0.1227	
WIR 142 1 RUN 39	9.96 deg		z/d ti	0		2.0	. s.	0.6 0.0	•	0.4	•	•		•	5.5	0.9	•			8.0		z/d r/d:	 3.875 0.1104	. 125	4.375 0.10431	4.625	4.875		•	•	•		6.375	•	6.875	•	7.375	
	ALPH																																					

WHITE OAK LABORATORY

4 21 40	4.0								
WTR1421 RUN 40	af MACH		232.9	0.3691,0.0792 0.2884,0.0749 0.2397	0.1728 0.1551 0.1557 0.1527 0.1679		1.3435	. 0589	0.0
5	10 79.60 degf.		217.9	0.3124	0.1442 0.1345 0.1247 0.1274		1.2185	0.0955 0.0948,0.0589 0.0958	2.001
E TEST 10) PSI#2(TC/1)	psta FACTOR: 1.0	(PSI)	202.9	0.2435	0.1141 0.1029 0.1079 0.1054		s (PSI) 1.0935	0.1035 0.0967 0.0960 0.0950 0.0957	•
EL T2 PRESSURE TEST ION PSI#1(PR/10) P	PO 14.74 SCALE	BODY PRESSURES	187.9	0.1831	0.0824 0.0760 0.0693 0.0769	0.0634 0.0610 0.0778 0.0720 0.0851 0.1107 0.1323	WING PRESSURES 5 0,9685	6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
TUNNEL PSI CONFIGURATION	57.86 deg Averaged data		172.9	0.1362	0.0554 0.0538 0.0543 0.0565	0.05// 0.0615 0.0740 0.0851 0.0934 0.1090	185 0.8435	1185 1197 0.1156 1011 0.1046 0995 0.1046 1022 0.1020 0991 0.0988 0927 0.0988 0972 0.0979 0971 0.0960	Ś
	PHI 157 AV		••		0.0530 0.0426 0.0484 0.0558 0.0575	0.0620 0.0653 0.0679 0.0693 0.0750 0.1111	•	1.246 1.428 1.428 1.477 1.1381 1.405 1.411 1.411	<u> </u>
WTR 142 ! RUN 40	Н 15.00 deg		z/d theta 0.5		ယ ယ ႕ ႕ ႕ ႕ ဝ ဃ ဝ ယ ဃ ဆ		r/d: C 0.1235+	.375 0.11631 .625 .125 .125 .625 0.0706, .875 .125 .375	

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WTR142 RUN 4	JF MACH		255.9		0.1790,0.1703	0.1130		0.0895	0.0840	0.0889	0.0865	0.1014	0.0926	0.0928	0.0926	0.0942	0.0940	0.1049	0.0812		1.3435														0881		0.0855
(1)	10 79.76 degF 1.0000		240.9		0. 1833	0.1145		0.0911	0.0891	0.0844	0.0891	0.0888	0. 1002	0.0911	0.0961	0.0920	0.1117	0.0956	0.0976		1.2185			-										0.0811		0.0882	0.0857
TEST () PSI#2(TC/1)	pste FACTOR: 1	(PSI)	225.9	1	0.1786	0.1133	! !	0.0949	0.0905	0.0972	0.0983	0.0973	0.0870	0.0917	0.0952	0.0993	0.1143	0.1126		(PSI)	1.0935							•				0.0925	0.0794	0.0814	0.0819	0.0907	0.0879
T2 PRESSURE TEST PSI#1(PR/10) P	14.74 SCALE	PRESSURES	210.9		0.1773	0.1123		0931	0924	9280	0.0993	0.0874	0858	1013		0.0970	0. 1083	0.0865	0. 1216	WING PRESSURES (PSI	0.9685			-	-					0.0915		0.0912	0.0833	0.0819	0.0838	0.0907	0.0870
TUNNEL PSI CONFIGURATION	PO	BODY						Ö	Ö	Ö		o (· •	o ·	o (o.	Z 3	0.8435							0.1012	6060.0	0.0937	0.0930	0.0968	0.0845	0.0842	0.0847	0.0934	0.0888
PSI CO	180.92 deg AVERAGED DATA		195.9	!	0.1773	0.1099		0.0881				0.0968	0.0869	0.0907	0.0967	0.60.0	0.0890	9960.0			0.7185					0.0995	0.1045		0.0932	0.0929	0.0977	0.0954	0.0837	0.0843	0.0956	0.0921	0.0901
	PHI		ta: 180.9	0.2306	0. 1816	0.1076	0.0958	0.0837	0.0862	0.0916	0.0940	0.0971	0.0978	0.0946	0.0912	0.0874	•	0. 1001			0.5935				0.1049			0. 1031	0.0951	0.0942	0.0982		0.0851	0.0870	0.0939	•	0.0993
WTR1421 RUN 41	-0.04 deg		z/d theta:	0.0	ر د د		•	ල ල	0.4	ه . د ن	•	2 5 (ر د د		•	•		O. 60		z/d r/d:	. 625	.875 0.1005+		1.375 0. 10231	. 625	.875	. 125	. 375	.625 0.0961,	.875	. 125	. 375				.375
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RUN NO	WTR 1421 RUN 42			PSI CONFI	TUNNEL CONFIGURATION	12 PRESSURE TEST PSI#1(PR/10) P	TEST 0) PSI#2(TC/1)	(1/1)	•	•	WTR 142 1 RUN 42	
Ŧ	4.95	deg	IHd	180.51 deg Averaged data	P0	14.73 SCALE	ps la FACTOR:	1.0000	80.36 degf	•		0.
					BODY	PRESSURES	(PSI)					
	2/d 0.5	theta:	180.5	195.5	210		225.5	240.5	ស់	255.5		
	c		0.2258	0.1897	ó	0.2056	0.2229	0.2414	4-	0.2452,0.1266	966	
	5 6 6		0.1018	0.1144	o o	1274	0.1389	0.1490	061	0. 1535		
			0.0898	0.0867	Ö	0.0994	0.1096	0	1120	0.1166		
	0.4		0.0762	0.0876	Ö	0.0972	0.1036		1095	0.1095		
	4.3		0.0813	0.0882	ö	0.0910	0.1095		1026	0.1131		
	4 .5		0.0832	0.0921	Ö	0.1021	0.1103		1069			
	4 .8		0.0854	0.0910	o O	0.0891	0.1079		6901			
	5.0		0.0861	0.0794	o O	0.0862	0.0961		1182	0.1166		
	5.5		0.0821	0.0811	o.	0.1003	0.0983		1053	0.1128		
	9 .0		0.0774	0.0858	Ö	0.0893	0.1005		1093			
	6.5		.074	0.0844	Ö	0.0916	0.1027		1024	0.1108		
	7.0			0.0780	Ö	0.1011	0.1152		1204	0.1080		
	7.5		0. 1000	0.0927	ö	0.0804	0.1110	o. ₹	900	0.1146		
	8 .0				о	. 1435	•		1031	0.0870	•	
					DNIM	IG PRESSURES	(PSI)					
7		r/d: 0.5935	35	0.7185	0.8435	0.9685	1.0935	35	1.2185	1.3435		
e,	. 625					•						
ຕ່		0.1268+										
4	. 125											
4	0	. 12681 0. 128	284									
4	625			0.1230								
4	875			0.1257		•						
w.	125		42		0.1217							
'n		0.	58	0.1140	0.1115						•	
เก	0	.0915,0.1	134	0.1123	0.1134	0,1115						
'n.	875	0.116	167	0.1166	0.1114							
ý	6.125			0.1132	0.1145	0.1098	0.1113	13				
9	375		18	0.1008	0.1014	0.1008	0.0971	7.				
ø.	625		25	0.1004	0.1006	0.0988	0.0987	37	0.0988			
œ [.]	.875		33	0.1110	0.1005	0.0997	0.0983	33	0.0981,0.0863	0863		
7	. 125	0.1100	8	0.1065	0.1078	0.1055	0.1068	88	0.1046			
7	375	0.1045	S.	0. 1010	0.1014	0.1008	0. 103	53	0.1021	0.1020		

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WTR1421 Run 43	degF MACII		4	9.667		7310 0 0987	0.55.00.00.00.00.00.00.00.00.00.00.00.00	0.2115)	0.1610				1654		-	_	0.1464						1 2425	7								•				1080		0.1318
5	T0 80.54 de .0000		9 070	4.0.0		0.3143		0.1966		0.1476	_	_	•	_	_	0. 1347	_	_	-					1 2185												0. 1309			0. 1323
TEST (0) PSI#2(TC/1)	psta Factor: 1.	(PSI)	225 6			0.2757	;	0.1733		0.1326	_	_	-	_	_	-	0.1167	0.1177	0.1288	0. 1226		(PSI)	•	1.0935	•									0.1441		_	_	_	0. 1339
12 PRESSURE TEST V PSI#1(PR/10) P	PO 14.73 p SCALE F	BOOY PRESSURES	210.6			0.2370)	0.1462	•	0.1104	0. 1060	0.0997	0.1079	0.0952	0.0918	0.1048	0.0926	0.0937	0.1007		0.1049	WING PRESSURES	•	0.9685			٠				-	0.1459	,•	0.1445	_		_	-	-
TUNNEL PSI CONFIGURATION	ig DATA	80	9			0.1994		. 1182			0843	0.0838								.0692	•	>		0.8435						0.1591	0.1476		0.1477		Ξ.	-	0.1352		0.1334
PSI (180.56 deg Averaged data		195					•		0	Ö		Ö		Ö	o.				0				0.7185				9638			0.1517				0.1362		0.1453	0.1405	0.1340
	PHI		a: 180.6		0.2156	0.1691	0.1168	0.0940	0.0804	0.0648	0.0627	0.0661	0.0642	0.0648	0.0643	0.0609	0.0579	0.0595	•	0.0754				0.5935			0091	200		. 1637			. 1531			. 1372	•	_	. 1412
WTR 142 1 RUN 43	9.99 deg		z/d theta	r.	•	1.5	2.0	2.5	9.0	3.5	0.	ه. دن	.s	4.8	5.0	ວ່. ຫ	0.0	. 5 1	0.7	7.5				r/d:		75 0. 1712+	25 75 O 16801 O 1688		875	25 0.		0.0804	75 0						.0
W TR	Hd1			•			. •			, •	-	•	•	•			- '	- '	•	1				p/z	3.625	3.875	4.125	4.625	4.87	•	•	5.62	•	•	•	6.625	6.875		7.375

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WTR142	MACH		244 7			0.4366.0.0914	0.3428.0.1017	0.2875		0.2214	0.2121	0.2121	0.2093	0.2250	0.2165	0.2078	0.2032	0.2032	0.2018	0.2084	0.1727			0010												1065		0.1732
	T0 80.91 degf 1.0000		240.7			0.4028		0.2584		0.1976	0.1908	0.1825	_	0.1882	0.1963	0.1810	•	0.1761	0.1928	0.1749	0.1667			20.4.											0 1769	0.1747.0.1065	180at C	0.1761
TEST (0) PSI#2(TC/1)	PS IS FACTOR: 1.	(PSI)	225.7	· · ·		0.3391		0.2170		_	0.1578	_	_	_	_	_	-	0.1492		0.1558		(PSI)	1 0938										1904				_	
12 PRESSURE TEST N 851#1(PR/10) P	PO 14.73 F SCALE F	BOOY PRESSURES	210.7			0.2736		0. 17 10		٦	0.1236	0.1177	Ξ.	_	τ.	Ξ.		0.1150		0.1050	0.1296	WING PRESSURES	0 9685								9491		0 1943	_	_	_	_	_
TUNNEL PSI CONFIGURATION	80.72 deg Averaged data	08	195.7			0.2122		0.1267		0.0941	0.0928									1128		3	0.8435							0.2124		0.200	0.2022	0. 1893			_	_
PSI	-		7		174											0		0	ro.	162 0.			0.7185					0.2222	0.2219	0,000	0.2073	0.2069	0.2034	0.1905	0.1895		0.1922	0.1868
	ры дер		theta: 180.	0.2774		0.16	0.11	0.0923	0.09									o. 0		0.1			1: 0.5935		155+		2305! 0.2285		0	0.5223	0	o		0.1934	191	0.1967	0.1985	
WTR 1421 RUN 44	14.97 de		p/z					2.5	•	•	•	•				ນ ເ	٠	•	7.0		O. 8		z/d r/d	3.625	3.875 0.2355	. 125	.375 0.	4.625	4.0/3	5 275 5 275	5.625 0.1027	875	6.125			.87	7.125	. 37

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-0.06	Ge jo	P	203.30 deg AVERAGED DATA	.¥	14.72 SCALE	ps (a FACTOR: t.	T0 81.30 degF 1.0000	egf.	MACII	€.0
				BODY	BODY PRESSURES	(PSI)				
	theta:	203.3	218.3	23	233.3	248.3	263.3	278.3		
o -		0.3068								
		0.1817	0.1782	c	1284	100	. 781			
5.0		0.1294		5				0.1804.0.1703	503	
2.5		0.1087	0.1106	Ó	0.1125	0.1137	0, 1149	0.1370.0	200	
•		0.0947				•				
3.5		0.0841	0.0883	0	0927	0.0942	0.0912	0.0898		
*		0.0863	0.0909	Ö	0925	9060.0	0.0893	0.0849		
æ. ₹		0.0915	0.0925	Ö	0878	0.0969	0.0849	0.0893		
•		0.0945	0.0969		0993	0.0985	0.0893	0.0875		
4 8		0.0974	0.0973	Ö	0.0891	0.0978	0.0904	0.1016		
		0.0984	0.0885	Ö	0872	0.0892	0.1004	0.0940		
5.5		0.0948	0.0912	Ö	1010	0.0919	0.0915	0.0939		
		0.0915	0.0966	Ö	0934	0.0955	0,0963	0.0930		
		0.0883	0.0969	ö	0.0972	0.0990	0.0922	0.0945		
		٠,	0.0903	Ó	0.1070	0.1123	0.1081	0.0941		
7.5		0.1006	0.0910	Ö	0.0876	0.1111	0.0955	0.1037		
8 0				Ö	0.1173		0.0959	0.0807		
				2	WING PRESSURES	(PSI)				
	r/d: 0.5935	35	0.7185	0.8435	0.9685	1.0935	1,2185	2678	•	
625								•		
	0.1016+									
•		!								
9	09241 0.1055	255	1							
. 620. 826			0.1007							
	6001	71	0. 1043	0,01						
275	0.00		9000	0.101						
	0.0350	2 5	0.0938	0.0911	0000					
			0.0978	•	0.0340					
125)		0.0952		0.000	2000				
375	0.0856	99	0.0843		0.0836	0.0320				
625	0.0858	80	0.0849	0.0844	0.083	0.0800	0.0813			
875	0.0934	34	0.0950	0.0856	O. O842	0.0826	0.0813.0.0893	080		
125	0.0965	35	0.0919	0.0928	0.0906	0.0906	0.088.0	7.0034		
375	8000	9				, , , , ,				

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WTR 1421 RUN 47	MACH	•	7.3		0 2491 0 1309	0 1903 0 1087	0.1557	1250	1196	1231	1208	1365	1298	1289	1256	1241	1204	1245	0867		1.3435														•		1701
	81.60 degF		.2 278.2	•	0 0 0 0 0 0				198 0.1		0				ó	1172 0.1	Ö	1140 0.1	1065 0.0		1.2185													0. 1301	0.1277,0.1084	0.1305	0007
5T PSI#2(TC/1)	T0 T	•	.2 263.2		0 0 0 0		514 0.1564		150 0.1		Ö	Ö		Ö		Ö	1287 0.1	Ö	0.	(19	1.0935	•										0.1399	0.1249	0.1234	0. 1211	0.1269	
12 PRESSURE TEST PSI#1(PR/10) P	14.71 psta SCALE FACTOR	BODY PRESSURES (PSI	.2 , 248.2				423 . 0.1514	1107 0.1	0.1	1045 0.1	0	0	1014 . 0.1	1139 0.1		Ö		Ö	1331	WING PRESSURES (PSI)	0.9685	•								0.1380		0.1324	0.1207	0.1188	0.1174	0. 1231	
TUNNEL TO	PO DATA	BODY	.2 233.2		F2 0 2207		07 0.1423	Ö	Ö	Ċ	Ö		Ö	Ö	Ö	Ö	Ö	Ö	0.4	SNIM	0.8435							0.1456		0.1328	0.1298	-	•	0.1167	_	0.1228	
PSI CO	203.25 deg Averaged data		2 18	7	8		7 0.1307	9860.0			o.	Ö	o.			7 0.0965					0.7185					0.1436	0.1437			0.1286	0.1316			0.1147	0.1245	0.1204	
	DHI DHI		theta: 203.2		0.2578			 0.086	0.0869	0.091	0.0933		0.0958	•	•	0.0857		0.1087			1: 0.5935		141+		1591 0.1479			0. 1393	0.1307	-	0.1305		0.1152	0.1144	_	Ξ.	•
WTR 1421 RUN 47	4.96 deg		p/z	٠.	O. u		, c										7.0	7.5	0 . 8		z/d r/d	3.625	3.875 0.14	4.125	4.375 0.13	4.625	4.875	5, 125	5.375	.625 0.	5.875	6. 125	6.375	6.625	6.875	•	
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	WTR 1421 RUN 49			PSI CONFI	TUNNEL CONFIGURATION	12 PRESSURE TEST PSI#1(PR/10) P	: TEST 10) PSI#2(TC/1)	(1/5)	WTR142 RUN 49	49
I	14.95	deg	PHI	203.36 deg Averaged data	P0	14.71 SCALE	psta Factor:	T0 82.18 de 1.0000	degf MACH	.0
					BOOY	PRESSURES	(PSI)	;		
	2/d 0.5	theta: 20	203.4	218.4	Ř	233.4	248.4	263.4	278.4	
		00		0.3088	0	0.3715	0.4234	0.4586	0.4529,0.0746	
	0 2 0 0 10 0	000		0. 1921	0	. 2368	0.2758	0.2974	0.3558,0.0731 0.2996	
	ມ ພ ວັ ໝັ	00		0.1434	0	Ξ.			0.2520	
	4 4	o c	. 1025	0. 1408	o c	. 1792	0.2117	0.2365	0.2504	
		0		-	0	_	0.2208	0.2333	0.2563	
	,	0 (•	o o	-	•	. 0.2401		
		oc	0989	0. 1332	oc	1780	0.2093	0.2498	0.2732	
		0			0		0.2061	0.2365		
	•	0		Ξ.	0	Τ.		0.2265		
		0			0	. 1691		0.2423	0.2503	
	7.5	0	. 1021	0.1211	0		0.2100	0.2279	0.2575	
	8 .0				٥	. 1695		0.2070	0.1722	_
					Ĭ.	WING PRESSURES	(PSI)			
	p/z	r/d: 0.5935		0.7185	0.8435	0.9685	1.0935	1.2185	1.3435	
	.625									
	.875 0	. 2929+								
	. 125									
	4.375 0	. 29101 0. 2995	S.	, , ,						
	4.023 4.875			0.2934 0.2884						
	5, 125	0.2751			0.3008					
	5.375	0.2627		0.2675						
	•	.0773,0.2596		0.2613	0.2738	0.2947				
		0.2604		0.2629	0.2681					
				0.2587		0.2776	0.2976	9		
	•	0.2478		0.2472		0.2601	0.2802			
	•	0.2465		0.2463	0.2495	0.2567	0.2724			
	6.875	0.2556		0.2556	0.2492	0.2511	o O		0.1251	
	7.125	0.2570	_		0.2531	0.2555	ö	3 0.2805		
	7.375	0.2664		0.2492	0.2501	0.2513	0.2563		0.2904	

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+ 0 0 0 0 4 4 4 8 0 0 0 0 0 0 0 0	225.9 0.3795 0.2891 0.2264 0.1629 0.1349 0.0997 0.1035	225.89 deg AVERAGED DATA 240.9 0.2371 0.1453 0.1109 0.1118 0.1163	PO 80DY PRE 255.9 0.2467 0.1526 0.1182 0.1181	ACTOR: (PSI) 270.9 0.2510 0.1566 0.1228 0.1216	D G =	8 000 0000	o.
4.8 5.0 6.0 6.5 7.0 8.0 8.0	0.1083 0.1089 0.1047 0.1018 0.1056 0.1261	0. 1165 0. 1080 0. 1085 0. 1119 0. 1119 0. 1216 0. 7185	0.1167 0.1142 0.1142 0.1152 0.1171 0.1252 0.1131 0.1490 WING PRESSURES	0. 1299 0. 1220 0. 1213 0. 1249 0. 1368 0. 1353 ESSURES (PSI)	0. 1269 0. 1251 0. 1281 0. 1284 0. 1294 0. 1184	0.1388 0.1336 0.1359 0.1351 0.1313 0.0982	
0. 15191	. 1594 1485 1387 1369 1255 1234 1310 1338	0. 1565 0. 1545 0. 1407 0. 1383 0. 1365 0. 1260 0. 1262 0. 1353 0. 1353	0. 1601 0. 1464 0. 1418 0. 1418 0. 1286 0. 1280 0. 1289 0. 1320	0. 1533 0. 1468 0. 1336 0. 1336 0. 1320 0. 132 0. 1355 0. 1329 0. 1329 0. 1329	2 5 6 0.1478 7 0.1457,0.1656 6 0.1480. 8 0.1455	. 1656	

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PHI 22 26.0 4573 3546 2802 2051 1241 1224 1235 1236 1236 1236 1236 1236 1236 1236 1236	PHI 2 2.26.0 0.4573 0.3546 0.2802 0.2051 0.1241 0.1256 0.1256 0.1256 0.1256 0.1256 0.1256 0.1256 0.1256 0.1256 0.1257 0.1256 0.1258 0.1256 0.1257 0.1256 0.1257 0.1256 0.1257 0.1256 0.1257 0.1257 0.1257 0.1259 0.1257 0.1259 0.1257 0.1259
26. 0 241.0 4573 3546 0. 3115 22051 1699 11392 0. 1449 1224 0. 1448 1225 0. 1448 0. 1448 1275 0. 1448 0. 1448 0. 1448 0. 1448 0. 1448 0. 1449 0. 1444 0. 1449 0. 1444 0. 1449 0. 1444 0. 1444 0. 1449 0. 1444 0.	140 tas : 226.0 241.0 256.0 271.0 0.346 0.3441 0.356.0 0.315 0.3348 0.3441 0.356.0 0.356 0.3441 0.356.0 0.356 0.35
26.0 4573 3546 2802 2051 1059 11392 1124 11256 11275 0.1505 11295 0.1505 11295 0.1505 0.1363 11689 0.1363 0.1387 1159 0.7185 0.2370 0.2371 0.2083 0.2093 0.2093 0.1904 0.1908 0.2013 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908	theta: 226.0 0.4573 0.3546 0.2802 0.1802 0.1934 0.1204 0.1214 0.1224 0.1244 0.1256 0.1275 0.1268 0.1275 0.1289 0.1298 0.1298 0.1204 0.1299 0.1363 0.1204 0.1387
26.0 241.0 4534 4535 66.0 3115 699 0.1344 1224 0.1448 1225 0.1505 1225 0.1505 1225 0.1387 1204 0.2253 0.2371 0.2083 0.2095 0.1904 0.1904 0.1905 0.1908 0.1904 0.1908	Fig. 126.0 10.4573 0.3546 0.2802 0.1934 0.1241 0.1241 0.1256 0.1275 0.1289 0.1275 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1289 0.1387 1033.0.1997 0.2013 0.2013 0.2013 0.2013 0.20140 0.2013 0.20140 0.2013 0.20140 0.2013 0.20140 0.2013 0.20140 0.2013 0.20140 0.20140 0.20140 0.2013 0.2013 0.1904 0.1905 0.1906 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908 0.1908
26.0 -45573 -25673 -25673 -25673 -1256	theta: 226.0 0.4573 0.3546 0.2802 0.2051 0.1392 0.1241 0.1224 0.1224 0.12295 0.12395 0.1204 0.1223 0.12384 0.22384 0.22384 0.22384 0.22384 0.2237 0.22511 0.2334 0.1997 0.1997 0.1867 0.1966 0.1998
8	theta: 226 0.3 0.3 0.2 0.1 0.1 0.1 0.1 1033,0.1997 0.1867 0.1969 0.1966
	theta theta :2238 t 0. 1033,0. 0. 0.

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WTR1421	MACH			301.1			0.4036,0.0835	0.3153,0.0672	0.2652		•		•			•				0.2816	0.1896 0.1896			1.3435													111		0.3386
(1)	T0 83.21 degF 1.0000			286.1			0.4510		0.292		0.2336	0.2434	0.2482	9.53.0	0.2234	0.3647		0.2737	0.3758	0.2738	0.2420			1.2185												0 3407	3340 0 321	0.3340.0.	0.3143
: TEST 10) PSI#2(TC/1)	psta FACTOR: 1	(PSI)		271.1		0.4610	0.43/3	0 2999		0 2226	0 2361	0.2357	0.2552	0.2548	0 2476		0.2605	0.2529		0.2572		(PSI)	,	1.0935										0.3414	0.3264	0.3179	0.3099	0.3086	0.3015
12 PRESSURE TEST N PSI#1(PR/10) P	PO 14.70 p	DY PRESSURES		7.26.1		0.4417		0.2855		0.2212			0.2331	0.2285	0.2256	0.2256	0.2179	0.2263	0.2332	0.2104	. 2248	WING PRESSURES	1 0 0	0. 3083								0.3371	. !	0.3204	0.3025	0.3006	0.2944	0.2978	0.2926
TUNNEL PSI CONFIGURATION	DATA	BODY				0.4004		0.2565 (1944	1922	1928			1947 C					852 0	0	IM	30.00								0.3199			•	•		•	٠	0.2865
) ISA	226.10 deg Averaged data		, , , , ,	_						0	ó	Ö	0.2012		Ö	Ö	Ö	Ö	0	0.1			0.7485						0.3218		0.3018	0.2930	0.2963	0.2922	0.2825	0.2811	0.2891	0.2853	0.2800
	IHd		theta: 226.1	0.5	0.4279	0.3432	0.2573	0.2146	0.1754	0.1595	~	-	_	0.1642	_	_	0.1485	0.1422	- '	0.1467			0.5935				0.3322			0.3048	0.2916	2005.0	•	0 20 42	0.2013	27.75	7.2049	0.2848	1.5531
WTR1421 RUN 53	14.96 deg			9.0	1.0	ر د د	5.0		ر د د	ص ب	0.4	ر م دن	4. U.	4. r	ن ر ک ر	ຄຸດ	٠ د م	n 0))		1/4:	. 625	.875 0.3189+	(3/5 0.32791	625 875			.625 0.0924 (ט ני	,
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WTR 1421 RUN 54	MACH		323.6		0.1814.0.1718	0. 1371, 0. 1336	0.1146	2080.0	0.0876	6060.0	0.0899	0.1004	0.0958	0.0938	0.0950	0.0961	0.0968	0.1063	0. 1000		3696														905		0.1424
9	T0 83.55 degF 1.0000		308.6		0.1851		0,1148	0.0914	0.0906							0.0939	1077	1005	0.1043		1.0185) ; ;												0.0877	0.0994.0.1905	0.1209	0. 1372
RE TEST 1/10) PSI#2(TC/1)	psta FACTOR:	S (PSI)	293.6		0.1821	•	0.1142	0.0933	0.0915	0.0957	0.0971	0.0975	0.0922	0.0932	0.0961	0.090		0.1126		ES (PSI)	5 1 0935					-				0					•	0.1053	
TUNNEL T2 PRESSURE TEST URATION PSI#1(PR/10) P	PO 14.70 SCALE	BODY PRESSURES	278.6	٠	0.1812		0.1130	0.0920	0.0920	0.0890	0.0978	0.0910	0.0893	0.1002	0.0943	0.0976		0.0961	0. 1220	WING PRESSURES	0.8435 0.9685				•			043		948 0.0940							960 0.1005
TUNNEL PSI CONFIGURATION	248.63 deg Averaged data		263.6		0.1807		0.1116	0.0882	0.0908	0.0920	0.0951	0.0963	0.0902	0.0922	0.0967	0.0966	0.0345	0.1027			0.7185 0.8				-	0.1040	0. 1060									.0951	0.0948 0.0960
	IHA		theta: 248.6	0.2332	0, 1818	0.1311	0.1112	0.0854	0.0881	0.0916	0.0941	0.0968	0.0981	0.0949	0.0928	0.0915		0.1065			0.5935				0.1057						0.0963					.0977	0.1111
WFR 1421 RUN 54	ALPH -0.04 deg		2/d the	0	5.7	~ ~	6. G			4.3	4.5	4.8	5.0	5.5 5.5	0.9	6.5	7.0	7.5	8.0	•	z/d r/d:	10	3.875 0.10364	4.125	4.375 0.09561	4.625	4.875	5. 125	375	5.625 0.0961,	5.875	•	•	6.625	6.875	7.125	7.375
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WTR1421 RUN 55	₽ 0.																					•												
`≥ &	JF MACH		323.4		0.2191,0.1596	0.1665,0.1253	0.1371		- 1	0.1211	0 1232	0. 1353	_	_	_	0.1393	0, 1377		0.1173	:	1.3435											,	. 3965	
2	T0 83.85 degF 1.0000	•	308.4		0.2397		0.1467	1180	0.1182	0. 1222	0.1.39	0.1269	0.1342	0.1262	0. 1305	0.1258	0.1394	0.1302	0.1303		1.2185				•							0.1679	0.2023,0.3965	0.2337
TEST 3) PSI#2(TC/1)	psta 1.C	(PSI)	293.4		0.2459		0.1528			0.1206	0.1305	0.1309	0.1254	0.1244	0.1271	0.1287	0.1370	0.1392		(PSI)	1.0935									0.1592	0.1485	0.1487	0.1550	0.1740
12 PRESSURE TEST PSI#1(PR/10) P	14.70 SCALE	PRESSURES	278.4		0.2505		0.1548	•		1196			1197	1296	1224		1328	1239	. 1546	WING PRESSURES	0.9685							0.1570		_	•	0.1400	-	0 1524
TUNNEL CONFIGURATION	J PO	B00Y									10.0			1169 0.		1210 0.		1316 0.	С	N.	0.8435	•	•			0.1637	-	_	0.1461	0.1469	0.1338	0.1341	0.1369	0.1449
DS 1Sd	248.41 deg Averaged data		263.4		0.2488		0.1529	(o c	i c	o c	0	Ö	Ö	Ö	ö			0.7185			1594	0.1565		0.1438	0.1415	0.1424	0.1396	0.1306	0.1307	0.1395	0.1389
	PHI		8.4	0.40/6			0.1472			0.1095				. •		•	_	_			0.5935	•	•	0.1810		0.1501	0	0.	0.1388		. 129	0.1266	₹.	0, 1388
WTR 142 1 RUN 55	4.97 deg		۱م	- 0.5 - 0.5				0.0		0.4	•		o C			6.5	7.0		8.0		z/d r/d:		. 125	4.3/3 U. 1323 4 625			375	•	•	•	•	•	•	7, 125
	+																																	

WHITE OAK LABORATORY

WTR1421 RUN 56	MACH 4.0		323.7		7 2648 0 4442	0.2020 0.1143	0. 1665						0.1868		0.1788			0.2046			1.3435												
(1)	T0 84, 10 degf 1,0000		308.7		7,106.0		0.1910		1523	1658	1667	1726	1791	1865	0.1/60	1837	1988	1882	1805		1.2185											0.2411	
: TEST 10) PSI#2(TC/1)	psia FACTOR: 1	(PSI)	293.7		0 3300	0.5	0.2087		_	-	-	-	-		0.1/59	-	_	0.1903		(PSI)	1.0935				•					0.2355		0.2227	
12 PRESSURE TEST IN PSI#1(PR/10) P	PO 14.70 g	BODY PRESSURES	278.7	•	0.3440	0.5	0.2166				_	٠		0.1692	0.1777		Ξ.	0.1631	0.1918	WING PRESSURES	0.9685		•					0	0.2330	0.2257	0.2105	0.2114	
TUNNEL PSI CONFIGURATION	48.72 deg Averaged data	98	263.7		0.3416	2	0.2152		0. 1613	. 1608	. 1608	. 1655	. 1665		. 1610	1609	0.1564	. 1615		•	0.8435						0.2389	0.2238	0.2185			0.2020	
PSI	PHI 248.72 deg Averaged			225										1552 0.	1493 1466			909			0.7185				0.2338	0.2275		0.2122	0.2083	0.2051	0.1957	0.1947	
	ld bep		theta: 248.7	0.5225	0.4107	0.2414	0.2	- O	_	_	_			0	-	_		÷.0			r/d: 0.5935		0.2195+	0 22821 0 2345			0.2161	0.2057	•	•	0.1936	0.1881	
WTR 1421 RUN 56	PH 9.94		p/z	6.0 6.0	 	2.0	2.5	3.0	3.5	0.4	ਨ । ਹ	<u>4</u> .	4. r		n c	6.5	7.0	7.5	8.0			625	.875	4 375 0	625			5.375	875	6.125		6.625	

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	WTR 142 RUN 5	- L		۵	SI CONFI	TUNNEL PSI CONFIGURATION	T2 PRESSURE TE PSI#1(PR/10)	(V)	T PSI#2(TC/1)			WTR 1421 RUN 57	
ALPH	14.9	97 deg	PHI	248.98 AVERA	48.98 deg Averaged data	P 0	14.69 SCALE	19 psta .E FACTOR:	1.0000	84.38	M Jõep	МАСН	0.4
						BODY	PRESSURES	(FS (PSI)					
	•	theta:	249.0		264.0	27	279.0	294.0	ĕ	0.608	324.0		
			0.6485					•	•)	2		
) u		0.5235			•	1	•					
			0.4230		0.4524	o O	0.4562	0.4298	0	0.3863	0.3153,0.1315	13	
			0.3223		2044	(7000	0	(0.2440,0.1011		
	3.0		0.2222			ò	+ OC 7	0.4800	Š	0.2471	0.2039		
	3.5		0.2053		0.2246	Ö	2286	0.2158	C	1983	0000		
	4.0		0.2028			Ö	2259		c	2254			
	4.3		0.2048		0.2224	Ö	2236	0.2302	Ċ	2308			
	4.5		0.2095		0.2307	Ö		0.2464	Ċ	2397	0.23.0		
	4.8		0.2115		0.2315	Ö		Ó	C	2522	0.555		
	5.0		0.2116		0.2276	0	2415	0.2525	c	2614	0.2557		
	5.5		0.2032		0.2261	0	2468	0.2476	Ċ	2499	25.50		
	0.9		0.2012		0.2295	Ö	2417	0.2507	Ċ	2618	0.250 0.250B		
	6.5		0.1991		0.2266	o	2423	0.2557	Ċ	2672	0.27.15		
			0.1949		0.2215	o.	2496		ó	2769	28.0		
	•		0.1986			o	2490	0.2736	ò	2698	0.286		
	8.0					o	2627		0				
						2							
						278	WING PRESSURES	KES (PSI)					
	p/z	r/d: 0.5935	135	0.7185		0.8435	2888	•	3690	4010			
	3.625)	•			. 3433		
		0.3067+					•						
	•						•						
	375	0.32731 0.3	0.3304										
	.625			0.3311	_								
	4.875			0.3218	m								
		0.3037	37			0.3369							
	•	0.2949	149	0.3046									
	. 625	0.1497,0.2959	959	0.3006		0.3140	0.3326	26					
	•	0.25	53	0.3012			•	ı I					
	•			0.2986			0.3244	44	3364				
	•	•	2869	0.2902			0.3083						
	6.625	0.28	2803				1608.0		3204	0 3347			
	6.875	0.28	2880				0 3023		3160	0.3347	7367		
	7.125	•	2898	0.2907		0.2969	0.3053		3150	0.3374.0	*CC7.		
	7.375	0.29	2904	0.2869	•		0.2998	.0 86	3074	0.3177	0 3328	•	
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WHITE OAK LABORATORY		
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WTR1421 RUN 58	MACH 4.0			729	2																										
	degf		346.2	0.1814.0.1729	0.1145	0.0913	0.0885	0.0911	0.0908	0.0983	0.0940	0.0960	0.0968	0.0980	0.10/6		AC 40												0. 1958		
	84.72		331.2	0. 1855	0.1147	0.0917	0.0903	0.0885	0.0910	0.093	0.0936	0.0968	0.0947	0.1057	0. 1022 0. 1066		40.0											0.1009	0.1390,0	0.1796	
TEST PSI#2(TC/1)	.: 26	(PSI)	316.2	0. 1819	0.1148	0.0929	0.0914	0.0948	0.0981	0.0958	0.0936	0.0964	0.0985		0.1111	(PSI)	4000									0.0950	0.0897	0.0939	0.1062	0. 1329	
12 PRESSURE TEST PSI#1(PR/10) P	14.68 SCALE	PRESSURES	301.2	0.1820	0.1132	7160.			0.0990		0.0993	0.0945	0.0973	0.1047		WING PRESSURES				•				0 0957	200	0.0989	0.0894	0.0938	0.0972	0.1101	
TUNNEL PSI CONFIGURATION	g DATA	BODY			•	0										3	0.00 0.00 0.00 0.00						0.1049	0.00	0.0964	0.0992	0.0891	0.0913	0.0963	0.1050	
PS1 C	271.25 deg Averaged data		286.2	0.1814	0.1126	0.0879			0.0957						0.1034		7105	3			0.1051	0.1050	6900	0 0957	0.0965	0.0951	0.0891	0.0908	0.0990	0.1005	
	IHA 68p		theta: 271.2 0.3115	0.2343	0.1122	0.0930	0.0882		0.0954			0.0934	•	. 095	0.1064		./d. 0 5035		. 1038+	0.09661 0.1061		0,00	0.1046	7+60.0	-)	0.0909	0.0864	0.0950		0000
WIR 142 1 RUN 58	-0.07 d		z/d 0.5		9 67 6		4.0	Α.	ৰ ৰ চেক	5.0	5.5	0 .9	(C)	0.7	6. 9 8. 0		1.0	ıc	875 0				5.125	6.08	875	6. 125		6.625	6.875	•	1
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PH	7 deg theta:	271.3 0.4211 0.3224 0.2522 0.1841 0.1536 0.1135 0.1144 0.1135	271.28 deg AVERAGED DATA 286.3 0.2492 0.1514 0.1151 0.1169 0.1169	800 y 30 y 60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SCALE SSURES	DR: 1) 1114 1114 11186 11186 1261	1.0000 331.3 0.2172 0.1329 0.1092 0.1144 0.1176	0. 1944, 0. 1837 0. 1944, 0. 1837 0. 1472, 0. 1421 0. 1122 0. 1122 0. 1138 0. 1167 0. 1167	₹
0	r/d: 0.	0. 1239 0. 1195 0. 1192 0. 1211 0. 1314 5935	0.1182 0.1183 0.1237 0.1234 0.1224 0.1281	0.1183 0.1266 0.1223 0.1313 0.1313 0.1483 WING PR	0.1183 0.1256 0.1223 0.1252 0.1313 0.1483 WING PRESSURES	0. 1231 0. 1218 0. 1251 0. 1348 0. 1362 (PSI)	0. 1282 0. 1219 0. 1262 0. 1283 0. 1289 0. 1336	0. 1257 0. 1217 0. 1274 0. 1298 0. 1403 0. 1253	
3.878 4.128 4.128 5.378 5.378 6.28 6.28 6.28 6.28 6.378 6.28 7.378	0. 1450+ 0. 14831 0.1 0. 1353.0.13 0. 1353.0.13 0. 1353.0.13 0. 1353.0.13 0. 1353.0.13	. 1552 1447 1363 1373 1356 1295 1295 1323 1384	0.1558 0.1516 0.1409 0.1389 0.1372 0.1319 0.1410 0.1539	0.1589 0.1477 0.1443 0.1447 0.1336 0.1369 0.1560	0.1529 0.1509 0.1388 0.1461 0.1761	0.1544 0.1507 0.1633 0.1939 0.2884	0.2154 0.2923 0.3263	.0.3585	

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WTR1421 RUN 60	MACH . 4.0				0. 1939	0.1489															35												
	degF		346.5		0.2063.0.1939	0.1561.0.1489	0. 1282		0.1316	0.1423	0.1485	0 1606	0.1607	0.1596	0.1620	0.1640	0, 1681		0.1434		1.3435												
5	10 85.24 o		331.5		0.2523		0.1545				0.1438		0.1638		0.1652				0.1657		1.2185								•		•	0.2254	
TEST) PS1#2(TC/1)	. ::	(PSI)	316.5		0.2858		0.1793		_	_	0.1453	-	_		0.1652			0.1780		(PSI)	1.0935									0 2160	0.2099	0010	
12 PRESSURE TEST PSI#1(PR/10) P	14.69 psta Scale Facto	BODY PRESSURES (1				•			•	٠.	1453		•						1845	WING PRESSURES	0.9685		,					- !	0.2153	0 2133	0.1987	0.2027	
	PO A	BODY P	301.5		0.3185		0. 1993				0.0	2.5	0.15	0.16						NI W	0.8435						0.2215	0.2114	0.2067	0.2050	0. 1930	975	
TUNNEL PSI CONFIGURATION	271.48 deg Averaged data		286.5		0.3374		0.2128			0.1591	0.1584	0.1615	0.1565	0.1573	0.1623	0.1637		0.1695			0.7185				3.2201	0.2128				0.1968	1882	1884	
	1164		271.5	0.5488	0.3443	0.2569	0.2164	0.1737	0.1598	0.1591	0.1610	0.1650	0.1650	0.1592	0.1586	0.1596	Ξ.	0.1708						881		•	1929		1859		1828		
	deg		theta:																		r/d: 0.5935		. 1958+	0 21401 0 2188			0. 19	o ·	. 1803,0. 18		0. 18		
WTR 142 I RUN 60	96.6		p/z	6. c	5.5	2.0	2.5	3.0		0.4	4. 4 W. R	4	5.0	5.5	0.9		•	7.5	•			. 625	3.875 0.	375	625			375	.625 0	6.125			

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N N N N N N N N N N N N N N N N N N N	_			PSI CONF	TUNNEL PSI CONFIGURATION	T2 PRESSURE TEST PSI#1(PR/10) P	TEST 0) PSI#2(TC/1)	(;		W1R1421 RUN 61	
-	4.95	бөр	БНІ В	271.40 deg AVERAGED DATA		PO 14.69 p	psta FACTOR: 1.	10 85.59 degf 1.0000	9gF MACH	₹	4 .0
					800	BODY PRESSURES	(PSI)				
	2/4	theta:		286.4	e.	301.4	316.4	331.4	346.4		
			0.3544	0.4452	0	0.4092	0.3518	0.2905	0.2197,0.2073	e (
	9 20 0			0.2905		0.2641	0.2261	0.1819	0. 1580, 0. 1588 0. 1388	8 0	
						. 2018	-		0, 1570		
			0.2237			. 1982	0.1714		0.1790		
	4 4 5 10			0.2185	o c	2037	0.1792	0. 1823	0.1830		
			0.2303				0.2027		0.2072		
	•		•			. 2025	0.2093	0.2142	0.2093		
	•		0.2205	0.2157		. 2139	0.2139		0.2104		
				0.2207		. 2196	0.2241	0.2257	0.2106	,	
	•			•	Ö	. 2282	0.2308		0.2155		
			. 228			.2386	•	0.2427	0.2243		
	s c		0.2381	0.2373	o c	. 2345	0.2452	0.2427			
					•			0.2229	0.1830		
					3	WING PRESSURES	(PSI)				
/z 3.6	z/d r	r/d: 0.5935	35	0.7185	0.8435	0.9685	1.0935	1.2185	1.3435		
3.8	0	2523+									
	((
4 4 5 4	3/3 U.	. 29/81 0.3	. 303 4	,,,,,							
	75										
	125	0.2447	47		0.3052						
		o.	42	0.2801							
		7	85	0.2813		0.2946					
5.8	875	0.248	81	0.2774							
	125			•		0.2970	0.2964				
	375	0.2484	84	0.2665		0.2825	0.2917				
9.9	625	0.2440	04	•		0.2865	0.2891				
٠	875	0.2544	7	•	•	0.2810	0.2880		7. 2946		
	125	0.2588	88	•	•		0.2876	0.2930			
•	7.5	0.263	39	0.2660	0.2764	0.2809	0.2825	0.2867	0.2896		

. WILLE DAK LABORATORY

0.0969 0.1010 0.0059	0.8435 0.9
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0.1118 0.1439 0.2041	0.0

WHITE DAK LABORATORY

WTR1421 RUN 63	CH ♣.0					.																														
	рг масн		368.9		0 1692 0 2092	0 1281 0 1606	0.1068		0.1009	0.1034	0.1066	0.1065	0.1159	0.1151	0.1124	_	_		0.1254	0.1325		1.3435													2630	* * * * * * * * * * * * * * * * * * * *
	3 86.55 degf		353.9		0 1910		0.1167		0.0981	0.1042			0.1112	0.1157	_	0.1182	-	0.1255	0.1222	0.1330		1.2185												0.1561	0.2289 0.2630	
TEST:) PSI#2(TC/1)	psta T0 FACTOR: 1.0000	(PSI)	338.9		0.2049		0.1268		0.0992	0.1030	0.1074	_	0.1141	-	_	0.1174	0.1207	Τ.	0.1293		(PSI)	1.0935										0.1427	0.1367	0.1397	0.1564	
T2 PRESSURE TEST. PSI#1(PR/10) PS	14.67 SCALE	PRESSURES	323.9		0.2219	•	. 1367					1119	1097	1084	1179	1149	1189	1248	1190	1423	WING PRESSURES (PSI)	0.9685				•				0.1412	·	0.1420	0.1297	0.1336	0.1385	
TUNNEL PSI CONFIGURATION	g PO DATA	BODY	6				. 1446 0.						1138 0.		1116 0.				221 0.	Ö	NIA	0.8435						0.1475	_	_	0.1346	-	0.1263	0.1283	0.1347	
PSI CC	293.94 deg Averaged		308		0.2359		0		o O	o i	· •	o i	o '	o (o ·	o ·	Ö	o ·	_			0.7185				0.1447	0.1416		0.1327	0.1308				Τ.	0.1325	
	IH4 C		theta: 293.9	0.4136		0.1807	0. 1513	-	_	0.1125	-	117	-	120	116	116	0.1165	- :	0.1244			0.5935		•	11 0 1449			0.1332		<u>-</u>	0.1250		0. 1217	Ξ.	Ξ.	,,,,,
WTR 1421 RUN 63	4.94 deg		p,	r 0			2.5	•														z/d r/d:	•	125		.625			5.375	٠	•	•		. 62	•	١

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WTR1421 RUN 64	млсн 4.0				23	29										•									•						
			368.9		0.1545,0.2523	0.1154,0.1929	0.0951	0.1025			0.1175			0.1348	_	141		0.1246		1.3435					•					7 2264	
•	10 86.75 degf 1.0000		353.9		0. 1933		0.1165	0.0962	0.1110		-	0.1251		-		_	Τ.	0.1429		1.2185										0.1859	
TEST) PSI#2(TC/1)	psia T FACTOR: 1.0	(PSI)	338.9		0.2284		0.1411	0. 1034	0.1066			0.1264		_			0. 1556		(PSI)	1.0935								0.1848	0. 1805	0.1809	
12 PRESSURE TEST PSI#1(PR/10) P	PO 14.67 PS SCALE FA	PRESSURES	. 6'828		0.2681	•	0. 1660	0.1235	1209	1175	1243	1224	1320	1323	1388	1473		. 1604	WING PRESSURES (PSI)	0.9685			-			0.1856			0.1763	0.1799	
TUNNEL PSI CONFIGURATION	<	RODY	6		-		. 1892 0	1406 0				1398 263					1464 0	0	3	0.8435				DE91 0		0.1819				0.1746	
PSI C	293.85 deg Averaged dat		308	r M	9 0.302		0	Ó	o	0.0	0.	0 0	ó	Ö	0.0	Ö	ö			0.7185				-	0.1780	Ξ,	0.1742	- -	- ·	0.1629	
	PHI		theta: 293.9	0.4163	0.3289			0. 1523	-	Ξ.	-	0. 1566	0.1516	_	-	Ξ.	0.1532			. 0.5935	31+	721 0.1927		0 1484	4	o	0.1431			0.1405	
WIR1424 RUN 64	10.00 deg		9 4	n 0.	1.5	2.0	2.5	က ၁ ဖ	0.4	4.3	4.5	ه. م عن ر		0.9		7.0	7.5	•		z/d r/d:	.875 0.148	375 0. 18721	625	125	375	.625 0.2035	875	. 125	.375	629	

WHITE DAK LABORATORY

	WTR 1421 RUN 65			PSI CONFI	TUNNEL TO PSI CONFIGURATION	12 PRESSURE TEST PSI#1(PR/10) P	TEST)) PSI#2(TC/1)	(1/2		WTR	WTR 1421 RUN 65	
Ē	14.95	Gep	БНІ	294.06 deg AVERAGED DATA	PO	14.67 ps	ps la FACTOR:	T0 86.98 1.0000	8 degf	MACH	4	0.
					BODY	PRESSURES ((PSI)					
	2/4	theta:	294.1	309.1	324	-	339.1	354.1		369.1		
			0.5299	93794	9010	80	0 25,40	0.00		3000		
			0.3263		; ;	26	0.4.0			0.1061.0.2322		
	•		0.2782	0.2453	0.2028	028	0.1593	0.1193		0.0867		
	9.0 0.0		0.2239	787		90	744	3900				
			0.2033	0 5825		473		0.0989	•	0.1062		
	٠.		0.2071		_	707						
			0.2110	0. 1820	_	497	_	_				
			0.2132	-	_	471	-	_	_	0.1439		
			0.2131	0.1794	_	438	0.1462	0.1494		٠.		
	5.5		0.2057	0.1744	_	206	0.1517	0.1536	•			
	•		0.2051		_	561	0.1642	0.1660				
			0.2050		_	695	•	-		0.1600		
	7.0		0.2022	0. 1803	0.1	819	Ξ.	٠.	•	0.1696		
	•		•	0.1828	_	835	0.1935	٠.		0.1787		
	8.0				0.4	930		0.1660		0.1350		
		٠			DNIM	WING PRESSURES	(1Sd)					
		r/d: 0.5935	35	0.7185	0.8435	0.9685	1.0935	5 1.2185	85	1.3435		
	•											
	.875 0	. 1405+										
	4.125											
	4.375 0.	24991 0	. 2526									
	4.625			0.2555								
	4.875	•	!	0.2465								
	5.125	-	543		0.2495							
	375	0	480	0.2317	0.2461							
	5.625 0.	2919,0.159	591	0.2246	0.2417	0.2397						
	5.875	5	84	0.2277	0.2437							
	6. 125			0.2191	0.2495	0.2489	0.2367	7				
	6.375		52	0.2017	0.2380	0.2386		5				
	•	0.1636	36	0.2047	0.2395	0.2427	0.2377		338			
		0.1736		0.2099	0.2430	0.2395	0.2390		348,0.3334	334		
		0.1796		0.2075	0.2440	0.2456	•	6 0.2372	172			
		0.18		0.1999	0.2434	0.2458	0.2393		146	0.2294		

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53,000 5 1731,7 261.6 361.6 0.091 0.092 0.093 0.093 0.093 0.093 0.093 0.106 0.093 0.106 0.	34. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	331.6 0.1828 0.0885 0.0914 0.0937 0.0937 0.0937 0.0937 0.0942 0.0971 0.0961 0.0961
361.6 376.0 376.0 0.1819 0.188 0.188 0.198 0.198 0.099 0.0990 0.0990 0.0990 0.0990 0.0990 0.0990 0.0990 0.103 0.10	16.6 1135 1135 1135 1135 0917 0934 0934 0997 1012 1012	3
0. 1819 0. 188 0. 0916 0. 009 0. 0923 0. 009 0. 0940 0. 009 0. 0948 0. 009 0. 0948 0. 009 0. 0948 0. 009 0. 0948 0. 009 0. 1036 0. 103 0. 103 0. 103 0. 10	1829 1135 1135 0912 0917 0917 0934 0934 0958 0958 0958 1198 1198	3
0. 1143 0. 115 0. 0916 0. 09 0. 0923 0. 093 0. 0940 0. 093 0. 0948 0. 093 0. 0948 0. 093 0. 0948 0. 093 0. 0948 0. 093 0. 1065 0. 103 0. 1065 0. 103 0. 1065 0. 103 0. 1065 0. 103 0. 1065 0. 103 0. 1065 0. 103 0. 1061 0. 103 0. 1021 0. 0962	1135 9914 9904 9904 9934 9934 1198 1198 3 PR	3
0.0916 0.09 0.0923 0.09 0.0940 0.096 0.0963 0.099 0.0979 0.099 0.0979 0.099 0.0979 0.099 0.0979 0.099 0.1036 0.1065 0.100 0.1065 0.1009 0.1065 0.1009 0.1009 0.1009 0.0909	9912 9917 9904 9915 9917 9917 9918 9917 9917 9917 9917 9917	3
0.0923 0.09 0.0940 0.0963 0.099 0.0980 0.09979 0.09979 0.09979 0.09979 0.09979 0.09979 0.09979 0.09979 0.09979 0.09979 0.109	19 17 19 19 19 19 19 19 19 19 19 19 19 19 19	3
0.0940 0.0963 0.0962 0.0963 0.0963 0.09963 0.09979 0.09979 0.09979 0.09979 0.09979 0.09979 0.09979 0.09979 0.100971 0.09962 0.1009935 0.100971 0.09962	1004 1005 1005 1005 1005 1005 1005 1005	3
0.0963 0.0963 0.099 0.099 0.099 0.099 0.099 0.099 0.099 0.099 0.099 0.099 0.099 0.099 0.1065	975 975 9934 9934 1980 1980 1980	3
ESSURES (PS1) 0.09685 0.0935 0.09685 0.09685 0.09685 0.09635	99999999999999999999999999999999999999	3
0.0948 0.093 0.0943 0.098 0.0989 0.099 0.1065 0.100 0.1065 0.100 0.100 0.100 0.0971 0.0962	9958 9958 9978 1980 1980	3
0.09473 0.099 0.0989 0.099 0.1065 0.1009 0.1065 0.1009 0.9685 1.0935 0.1021 0.0962	958 978 978 980 198 PRI	3
0.0989 0.1036 0.1065 0.1065 0.1070 0.9685 1.0935 0.0971	978 012 012 198 198	3
6. 1036 0. 103 6. 1065 0. 100 6. 1065 0. 100 6. 10935 0. 10935 0. 0971	980 980 198 PRI	3
0.1065 0.100 ESSURES (PSI) 0.9685 1.0935 0.0971	980 198 198	3
0.102 0.9685 1.0935 0.0971	98 PR	O. 1 WING
1.0935	8	BNIA
1.0935	•	
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WTR1421 RUN 67	MACH 4.0				ď	0 0	<u>n</u>																													
	degf		391.6		0 1502 0 2226	0.1303,0.2326	0.0962		0.0917	0.0934	0.0959	0.0961	0.1043				0.1079	_		0.1095		1,3435			ē.									. 1539))	
£	10 , 87.96 de 1.0000	٠	376.6		0 1671		0.1027	•	0.0894	0.0943	0.0940	0.0967	0.1011	0.1038	0.1022	0.1077	0.1068	0.1151	0.1138	0.1248		1.2185											0.1246	1250.0	1305	0000
E TEST 10) PSI#2(TC/1)	psta FACTOR: t.	(PSI)	361.6		0.1800)	0.1113		0.0890	0.0938	0.0972	0.1006	0.1036	0.1039	0.1024	0.1069	0.1100	0.1153	0.1190		S (PSI)	1.0935									0.1264		-	_	_	7007
L 12 PRESSURE TEST ON PSI#1(PR/10) P	PO 14.76 SCALE	BODY PRESSURES	346.6	٠	0.1978		0.1210	•	0.0924	0.0934	0.0922	0.1007	0.0998	0.0981	0.1069	0.1044	0.1086	0.1129		0.1352	WING PRESSURES	0.9685							0, 1259		0, 1289	0, 1169	0, 1198	0.1170	0, 1238	
TUNNEL PSI CONFIGURATION	16.55 deg AVERAGED DATA	B	331.6		0.2142		0. 1316		0.0982	0.0991	0.0994	0.1009					0.1062	0.1065	0.1120		•	0.8435					0.1338	0.1249	0. 1215	0.1221	0.1246	0.1148	0.1170	0.1195	0.1218	N 1228
PS	PHI 316.55 deg AVERAGED		9	0.3900								1091							1135 (0.7185			0. 1315	0.1284		Ξ.	Τ.	0.1182	Ξ.	₹.	┺.	Ξ.		0.1196
	deg		theta: 316	0	0														0.0			r/d: 0.5935	0.1184+	12381 0 1301				0	. 1362,0. 1136	0.1107		0.1100		0.1127	0.1165	0.1222
WTR 1421 RUN 67	4.92		p/z	6 O.	1.5	2.0	2.5	3.0	ල • ව	4.0	<u>4</u> ن	4. 3.	4. i	5.0	ກ (0.0	9 2) i	•	0.8 0.8			3.875 0.1	C	•	4.875 *	5.125		0	5.875	6.125	6.375	6.625	6.875	7, 125	.37

WHITE DAK LABORATORY

2 1 68	4.0																																
WTR1421 RUN 68	SGF MACH		391.7	0.1193,0.3075	0.0892,0.2343	0.0798	0.0847	0.0883	0.0978	0.1003						0.0872			1.3435												,0.2325		0.1713
-	10 88.11 degf 1.0000		376.7	0.1454	0.0865	0.0766		0.0873								9001 0			1 2185											0 1473	1479	0.1513	0.1545
TEST) PSI#2(TC/1)	psta 1 FACTOR: 1.C	(PSI)	361.7	0. 1732	0. 1053	0.0756	0.0811	0.0872	0.0978	0.1008	0. 1012	0. 1059	0.1090	0.1126	0.1151		(PSI)		1.0935									9099				_	0. 1519
12 PRESSURE TEST PSI#1(PR/10) P	PO 14.84 PS SCALE FA	PRESSURES	346.7	0.2107	0.1281	0.0931	0.0900	0.0870	0.0918	0.0913	0.1012	. 1012	0.1055	0.1090		. 1193	WING PRESSURES	•	0.9685						•		0.1524	6031		0.1530	0,1491	Ξ.	0.1541
TUNNEL PSI CONFIGURATION		BODY		0.2489 0	0. 1539 0	0 6111		1096 O		0 1701					1061 0	0	3		0.8435									0.1548			-	0.1494	0.1485
PSI	316.74 deg Averaged data		331.7			o.	0	o c	ó	Ö	o ·	o (o o	o (0				0.7185				0.1638	0.1589				0.1378	0.1338		0.1260	0.1218	0.1178
	IIId 61		theta: 316.7 0.4708	0.3664 0.2861		0. 14 10 0. 1298	_	0.1294	-	-	-			_ `	0.118				1: 0.5935		150	15661 0, 1603			0.1088	Ö	91,0	0.1024	0 1038	0.0978	0.1060	0.1099	0.1147
WIR1421 RUN 68	9.95 deg		z/d 0.5	c	2 2 6 5 60 6	9. E	0.4	4.4 	. 4 . 80	5.0	ខ្មា	0.0	פי	0.7	7.5 0.0) B			z/d r/d:	.020	3.875 U. 1053	375 0	•	4.875		.375	5.625 0.19	5.8/5	6 375	6.625	6.875	7, 125	7.375
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WTR142	MACH		9	13,0.3968	0557	73	16	55	4 00	03	20	35 57	1155			.3435									. 1689	•		
	degf		391.	0.0									0.11			_							91.76	9	0		•	1000
•	T0 88.32 d		376.6	0.1259	0.0734								0.1196			1.2185							1736	0.1803	•			Section Field
:Y EST PSI#2(1C/1)	psta 1 FACTOR: 1.C	PSI)	361.6	. 1686	. 1017	.0704		•				. 1192			(184	1.0935					_	0		0.1862	-			THE BOSKE
OAK LABORATORY 12 PRESSURE TE PSI#!(PR/10)	14.84 SCALE	PRESSURES (146.6 3	2244 0	1383 0	0994 0	•			0947		1072 0	1070 0	990107900	G PRESSURES (P	0.9685				0. 1824				0.1934	-			LLLLY POSSESSE
WILLTE TUNNEL CONFIGURATION	PO	ВОДУ	34	0	0	•		•					o o	3		0.8435				0. 1937					-		-	2.4.5
PSI CONF	316.57 deg AVERAGED DAT		331.6	0.2875	0.1819	0.1319	0.1281	-, -	-	-	~ -	 .	- .			0.7185		0.2078 0.1903		0.1238			T		-			Surviver
	РНІ		ю о 	0.4414 0.3504 0.2669												5935	Ç	•		0.0943				1037				Construction (
2.1 69	92 deg		d theta	020	50		· C 1	ഹര	0	ıo c) IO		o O			r/d: 0.	0.0861+	7	000	0.2882,0.0				00			:	222222
WIR14	PH 14.		•	2			•									b/z 675	3.875 4.125 4.325	4.875	5.125	5.625	6.125	6.375	6.875	7.125				'
	AL															A-	202											255255

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W1R1421 RUN 70	MACH 4.0				-	•															•												
			414.1		0.1791,0,1791	1348,0	0.1138	7000	5160.0	0.0923	0.0933	0.0982	0.1002	9960.0	0.0973	0.0987	0.1015	0.0916		1.3435												0949	
~	10 88.58 degF .0000		399.1		0.1836		0.1134	71000	0.0913	0.0912	0.0927	0.0966	0.0963	0.0950	0.0975	0.0982	0.0992	0.1005		1.2185											0.0931	0.0935,0.0949	0.0950
TEST) PS1#2(TC/1)		. (18d)	384.1		0.1829		0.1143	8080 0	0.0928		0.0958	0.0982	0.1003	0.0954	0.0972	000	0.1024		(PSI)	1.0935									0.0951	0.0942	0.0936	0.0942	0.0948
12 PRESSURE TEST PSI#1(PR/10) P	14.84 SCALE	PRESSURES	369.1		0.1849		0.1142	6060 0	•	0.0913	. 5160				0.0961			0.1171	WING PRESSURES	0.9685	٠			•			9990		0. 1036	0.0919	0.0964	0.0920	0.0965
IUNNEL PSI CONFIGURATION	9 PO DATA	BODY	-				.1151 0											0	3	0.8435						0.1061	0.1004	0.0981	0.1003	0.0910	0.0933		0.0953
PSI CI	339.10 deg Averaged data		354	∽ 10	7 0.1848		0	3 0 0888		9 0.0919	0		0	0 (00	_				0.7185				0.1072	0.1046		0.0983	0.0947	0.0940	0.0919	0.0933	0.0957	0.0937
	IH4 E		theta: 339.1	0.3181		0.1358	0.1183	0.0916	8060.0	0.0919	0.0958	0.0980	0.1001	0.0955	0.0953	0.0971	0.1014			0.5935	į	•	371 0.1056			0.1051	0.0944 SR 0.0974	0.092		0.0934	0.0850	0.0930	0.0967
WIR 1421 RUN 70	-0.06 deg		, d	s 0 -		2.0	2.5	ກ ຕ ວ ທ			₽.S		ر ا ا	n o	•	2.0	7.5	8.0		z/d r/d:	625	3.875 0.1030 4 125	4.375 0.09871	.625		5, 125	3,373 5,625 0 0958	875	6.125	6.375	6.625	6.875	7.125

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WTR1421 RUN 71	JF MACH		414.3	0.1379,0.2469	0.0911	0.0845	0.0865	0.0881	0.0934	0.0932	0.0949	0.0967	0.0993	0.1046	0.1045		1.3435												000	. 1386		0.10/6
5	10 88.77 degf 1.0000		399.3	0.1483	0.0931	0.0833	0.0867	0.0881	0.0923	0.0917	0.0956	0.0951	0. 1010	0.1032	0.1122		1.2185												0.1082	0.1088,0.1389	0.1093	0.1068
TEST 0) PSI#2(TC/1)	psta FACTOR: 1.	(PSI)	384.3	0.1585	0.0987	0.0819	0.0868	0.0913	0.0938	0.0918	0.0949	0.0972	0.1002	0.1060		(184)	1.0935											0.10//			0.1078	0.1056
12 PRESSURE TEST PSI#1(PR/10) P	PO 14.84 PS SCALE F/	PRESSURES	369.3	0.1736	. 1059	.0823	0.0843	8060.0	0.0919	0.0902	0.0930	0.0959	0.0993	0.1018	0.1278	WING PRESSURES (PSI)	0.9685							0	0.1089		0.1148	0.1030				0.1098
TUNNEL PSI CONFIGURATION	DATA	BODY		0. 1893 0	0.1163 0		0.0875 C			0.0902			_	0.1012		3	0.8435					•		0.102		0.1076		0.1016		0.1084	0.1083	0.1092
PSI C	339.27 deg Averaged data		354.3											e			0.7185				0.1143	0.1098				0.1028	-	0.1020	_		0.1062	0.1084
	Іна		theta: 339.3 0.354	0.2672	0.1513	0.0996	0.0936	9960.0	0.0983	0.0997		.092		<u>ō</u>			0.5935	* 6		31 0, 1113			0.1051	,	<u>4</u> 0 (0.0968		0.0992	0.0915	0.0999	0.1044	0.1180
WTR 1421 RUN 71	Н 4.93 deg			0.6			4 4 0 c		•			. ,	7.0		8.0		z/d r/d:	3 875 0 1029	125		ິມ			.375				6.375	•	•	7.125	•

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	RUN 72			PSI CONF	PSI CONFIGURATION	PSI#1(PK/10)	10) PSI#2(TC/1)	::		RUN 72	72
ALPH	6.93	ded	IHd	339.10 deg Averaged data	P0	14.64 SCALE	psia FACTOR:	TD 88.94	88.94 degF	MACH	₹.0
					BOD	BODY PRESSURES	(PSI)				
	2/d 0.5	theta:	339.1 0.3854	354.1	ř	369.1	384.1	399.1	414.1		
	(0 ii (0.2934	0. 1904		0.1575	0.1308	0.1144	0. 103	0.1036,0.3375	
	2.0		0.1684	0.1154		0.0937	0.0781	0.0701	0.0802	2, 0. 2554 8	
			0.0988	6080		0.0660	0.0627	0.0676	0690.0	c	
			0.0980	0.0791		0.0643	0.0690	0.0694	0.0687	1	
			0.0974	0.0119		0.0639	0.0708	0.0699	0.0699		
	4 ·		0.0990	0.0757		0.0698	0.0734	0.0721	0.0714	** **	
			0.0997	0.07/0		0.0/30	0.0	0.0763	0.0786	~ 8	
	٠.		0.0909	0.0719		0.0769	0.0766	0.0775	0.0764) -	
	0.9		0.0866	0.0711		0.0757	0.0789	0.0790	0.0788	. 60	
			0.0858	0.0101		0.0789	0.0800	0.0785	0.0798		
			0.0833	0.0744		0.0807	0.0826	0.0823	0.0812	8	
	7.5		0.0851	0.0809		0.0850	0.0874	0.0832	0.0824	₹	
					o	0. 1034		0.0827	0.0805	מו	
					3	WING PRESSURES	S (PSI)				
	p/z	r/d: 0.5935	35	0.7185	0.8435	0.9685	1.0935	5 1.2185		1.3435	
	3.625										
	875	0.0856+									
	. 125		1			÷.					
	0 6/5.	. 11481	0.1155								
	4.625			0.1227							
	5.125	0.0863	63	2	0.1264						
		0.0779	19	0.1078	0.1229						
	625	0.1801,0.0818	18	0.1035		0.1197					
	5.875	0.0769	69	0.0984	0.1228						
				0.0932	0.1251		Ö	~			
	٠,	0.0805	05	0.0883	0.1160		Ö	•			
		0.0712	12	0.0876		0.1246			4		
		0.0782	82	0.0868		0.1192	Ö		0.1193,0.2025		
	7.125	0.0818	8 9	0.0850	0.1116	0.1235	0.1206		50		
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1, 32 dag 11 339.35 dag 12 dag 10 14 g 12 dag 10 10 10 10 10 10 10 1	WTR 142 I RUN 73		PSI CC	TUNNEL CONFIGURATION	T2 PRESSURE TEST ON PSI#1(PR/10) P	E TEST 10) PSI#2(TC/1)	(1/)	WTR 142 RUN 7:	421 73
## Cheta: 339.3 354.3 369.3 384.3 399.3 ## Cheta: 339.3 354.3 369.3 384.3 399.3 399.3 ## Cheta: 339.3 354.3 369.3 384.3 399.3 399.3 ## Cheta: 339.3 354.3 369.3 384.3 399.3 ## Cheta: 339.3 0.1484	.92	1114	339.35 deg Averaged	DATA	14.83 SCALE	:	89.15		4
## the tail 339.3 Control of the tail 339.3 Control of tail of the tail 399.3 Control of tail o				980		(PSI)			
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Ξ	WTR1421 RUN 75 4.93	qeg	IH4	PSI CONF	TUNNEL PSI CONFIGURATION 36 dea PY	T2 PRESSUR PSI#1(PR/	E TEST 10) PSI#2(TC/1)		WTR 14 RUN	121 75
		n I	Ē	AVERAGED DATA	•	14.82 SCALE	psta FACTOR: 1	TD 89.58 degF 1.0000	gF MACH	4.0
					B 0i	BODY PRESSURES	(PSI)			
	`	theta:	358,4	373.4		388.4	403.4	418 4	7 33 7	
	5 O		0.3187				! !	·)	7.007	
	1.5		0.1822	0.1683		1551	7780	000		
	2.0		0.1352				0.1450	0.1388	0.1326,0.2481	
	6, 6 6, 6		0.1170	0.1039		0.0960	0.0914	0.0883	0.1019,0.1837	
) (0.0873)))	200	
	n •		0.0830	0.0779		0.0782	0.0792	0.0803	0.0795	
	4 .0		0.0837	0.0792		0.0786	0.0815	0.0805		
	4. 4 		0.0834	0.0190		0.0792	0.0816	0.0816	60000	
	գ .		0.0862	0.0804		0.0854	0.0850	0.0821		
	4 (0.0879	0.0834		0.0880	0.0880	0.0872	0.0004	
) (1)		0.0890	0.0847	J	0.0854	0.0915	0.0848	2000	
	ក ភ		0.0833	0.0821		0.0864	0.0850	0.0045	0.0303	
	0.9		0.0829	0.0840		0.0852	0.0869	0.0845	9.08/9	
			0.0841	0.0846		0.0872	0.0877	0.0866	0.0000	
	0.7		•	0.0895	J	0.0898	0.0903	0.0904	9,00,0	
	o 0		0.0947	0.0947	J	0.0954	0.0968	0.0959	0.00.0 8.00.0	
) 20 20				•	0.1197		0.1037	0.1047	
					X	WING PRESSURÈS	(PSI)			
	J P/z	r/d: 0.5935		0 7185	3070	9	•	,		
	3.625		i	•	0.0	0.9083	1.0935	1.2185	1.3435	
	.875	0.0902+								
	. 125									
	3/5	0.09361 0.0979	979							
	4.875			0.1018						
	5, 125	8960 0	œ		000					
	5.375	0.0878		0000	0.1002					
-	625	0.1165.0.0917			0.0364	0000				
-				0.0897	0.0946	0.0331				
_	6.125			0.0899	0.0970	610	0			
_	6.375	0.0913			0.0887	0000	0.0916			
_	6.625	0.0822			0.000	0.0038	0.0930			
_	•	0.0918			0.0958	0.0937	0.0924	0.0915		
	7.125	0.0974		0.0953	0.0958	0.0914	0.0941	0.0934,0.1164	1164	
	7.375	0.110		0.0985	0.0983	0.0983	0.0947	0.0945		
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WTR1421 RUN 76	gf MACH		433.5	0.1024,0.3370	0.0818,0.2529 0.0750	0.0638	0.0628		0.0639	0.0677	0.0686	0.0889	0.0731	0.0782	0.0867		1.3435													. 1540	9700	0.0943
:	10 89.79 degf 1.0000		418.5	0.1046	0.0107	0.0654	0.0638	0.0640	0.0672	0.0634	0.0648	0.0669	0.0710	0.0800	0.0845		1.2185												0.0956	0.0978,0.1540	0.0987	2.00.0
TEST 5) PS1#2(1C/1)	psta FACTOR: 1.0	(PSI)	403.5	0.1105	9690.0	0.0635	0.0650	0.0652	0.0680	0.0721	0.0655	0.0699	0.0724	0.0806		(PSI)	1.0935										0.0940	0.0969	0.0967	0.0986	0.0986	2
12 PRESSURE TE	PO 14.82 PE SCALE FA	PRESSURES	388.5	0.1257	0.0743	0.0615	0.0608	0.0656	0.0688	0.0660	0.0666	0.0664	0.0731	0.0793	0.0943	WING PRESSURES (PSI)	0.9685				•			•	0.0948		0.1053	0.0935	0.1010	0.0955	0.1006	2
TUNNEL PSI CONFIGURATION	DATA	800					•								0	3	0.8435						0.1014	0.0975	0.0929	0.0960	0.0986	0.0898	0.0927	0.0941	0.0908))
PSI CC	358.49 deg Averaged data		373.5	0.1489	0.0894		0.0599				0.0609						0.7185				0.0967	0.0901		0.0859				•	•	•	0.0766	
	РНІ		theta: 358.5 0.3127	0.2335	0.1318	0.0748	0.0732	0.0714	0.0720	0.0718	0.0650	0.0644	0.0696	0.0774			0.5935			3000			0.0844	0.0733	.076	9690.0	1	0.0723	0.0611	0.0691	0.0/39	•
WIR 142 I RUN 76	9.93 deg				2	ກ ຕ ວິທີ	0.6	. 4 . 10			n c			7.5			:p/1 p/z	. 625	875 0.08114	. 125 275 0 00031	625	875	. 125	.375	.625 0.1572,	•	. 125				. 125 375	5
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